

Environmental Dimensions of Place (EDOP)

Prototype, Jan. 2026. [API docs](#)

Main

Basins

Ecoregions

WH Cities

WH Sites

Resolve place

WHG API

EDOP Gazetteer

Coordinates

Glasgow

hide

Filter by country

United Kingdom (GB) x

Type to filter...

Similar WH Cities

Environmental profile

WHG place record

Summary		
Bioclimate zone	Cool temperate and moist	
Bioclimate stratum	J1	
Land cover	Artificial surfaces and associated areas	
Elevation (point, m)	43	
Elevation min (basin, m)	2	
Elevation max (basin, m)	345	
Relief position (0–1)	0.12	
Runoff (mm/yr)	1009	
Discharge (m³/s, yr)	56.07	
Ecoregion	Celtic broadleaf forests	
Population density	1423.0970458984375	

Similar WH Cities (Environmental)

Distance range among 254 WH cities: 1.6632 – 3.639 (median: 2.7595)

1. Nancy [France]	1.6632 (top 0%)	
Central Europe Temperate		
2. Boeun [South Korea]	1.6638 (top 0%)	
East Asia Monsoon		
3. Luxembourg [Luxembourg]	1.6679 (top 1%)	
Central Europe Temperate		
4. Le Havre [France]	1.7633 (top 1%)	
Central Europe Temperate		

Main > WHG API

- search place name in WHG, optionally with country/ies filter
- returns env profile (signature) and sub-basin feature mapped
- find 5 most similar World Heritage cites (of 254)

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MainBasinsEcoregionsWH CitiesWH Sites

Resolve placereset filter

WHG APIEDOP GazetteerCoordinates

Glasgow

~97k places from multiple sources. Type 3+ chars to search. [Clear](#)

Similar (env)

Environmental profile

Summary

Bioclimate zoneCool temperate and moist

Bioclimate stratumJ1

Land coverArtificial surfaces and associated areas

Elevation (point, m)18

Elevation min (basin, m)2

Elevation max (basin, m)345

Relief position (0–1)0.047

Runoff (mm/yr)1009

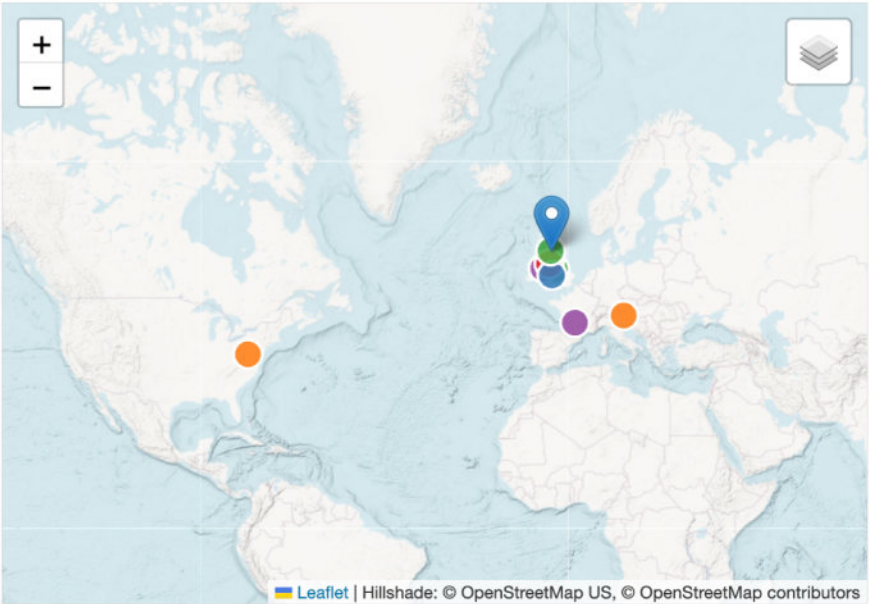
Discharge (m³/s, yr)56.07

EcoregionCeltic broadleaf forests

Population density1423.0970458984375

A — Physiographic bedrock

elev. min2



Similar Places (Environmental)

ranked by environmental signature distance (PCA)

1. Damn(on)ioi/Daunoni	dist: 0.1926	
pleiades · Temperate continental		
2. Kilsyth [GB]	dist: 0.3673	
whg · Temperate continental		
3. Unnamed lead mines at Halkyn Mountain	dist: 0.5845	
pleiades · Temperate continental		
4. Drumanagh	dist: 0.6079	
pleiades · Temperate continental		

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WHG API

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Coordinates

Longitude

Latitude

e.g. -2.99944

e.g. 16.77333

Get Signature

Use Timbuktu

Main > Coordinates

- enter lon/lat coordinates, OR
- get signature for hard-coded coords of Timbuktu, Mali

Environmental Dimensions of Place (EDOP)

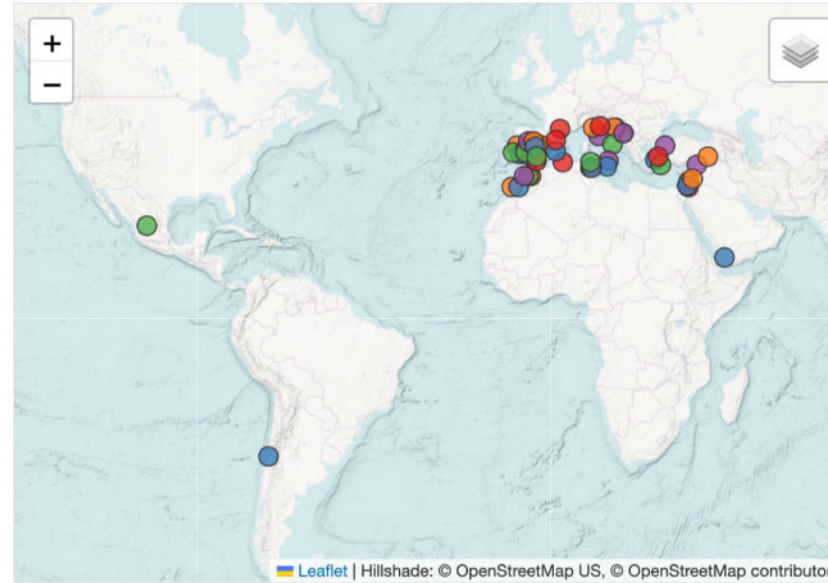
Prototype, Jan. 2026. [API docs](#)

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Basin Environmental Types

20 clusters of 190k sub-basins based on environmental bands A-D. Select to see WH cities in basins of that type.

Temperate continental	102
Mediterranean	52
Tropical coastal	20
Subtropical seasonal	16
Semi-arid highlands	13
Volcanic/tectonic highlands	11
Desert/arid	10
Sahel/tropical dry	7
Tropical plateau	6
Mexican highlands	5



Mediterranean

52 World Heritage cities in basins of this environmental type

Algiers, Algeria	
Valparaíso, Chile	
Dubrovnik, Croatia	
Split, Croatia	
Trogir, Croatia	
Carcassonne, France	
Patmos, Greece	

Basins

- list of 20 basin clusters, labeled for principal characteristics
- select one and WH cities within basins of that cluster are mapped and listed

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Ecoregions Hierarchy

Data from [OneEarth Bioregions](#) (847 ecoregions in 185 bioregions, 53 subrealms, 14 realms)

[Realms](#) / [Eastern Eurasia \(E. Palearctic\)](#) / [East Asian Deserts](#) / PA38

Alashan Plateau semi-desert

Deserts & Xeric Shrublands

Altai steppe and semi-desert

Temperate Grasslands, Savannas & Shrublands

Eastern Gobi desert steppe

Deserts & Xeric Shrublands

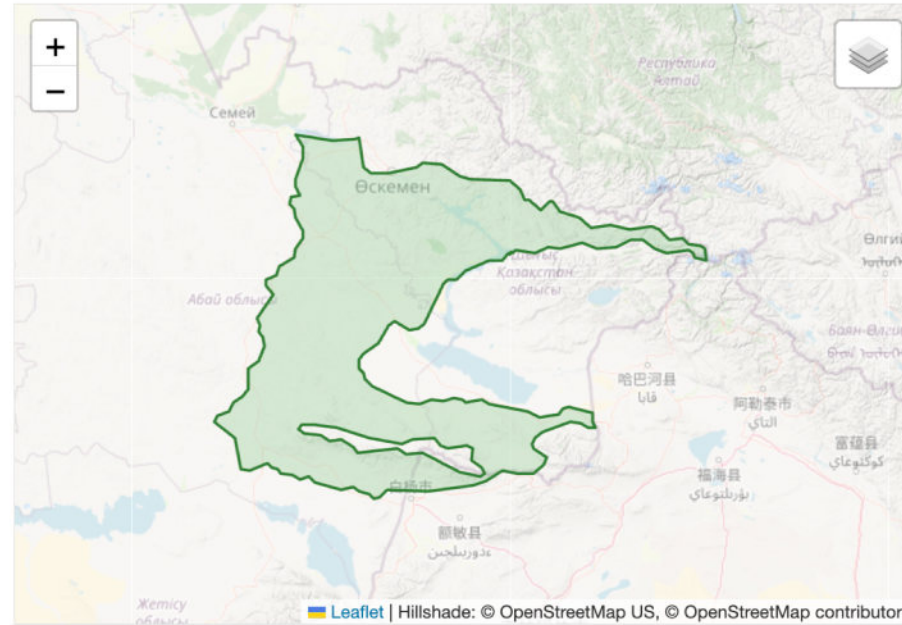
Junggar Basin semi-desert

Deserts & Xeric Shrublands

Altai steppe and semi-desert

Ecoregion

[View on OneEarth](#)



Ecoregions

- Navigate the hierarchical OneEarth framework of
 - Realms
 - Sub-realms
 - Bioregions
 - Ecoregions
- selected features are mapped
- Forthcoming:
 - intersecting basins
 - basin-derived signatures per Ecoregion,
 - Cities with ecoregion
 - ??

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258 World Heritage Cities

members of [Organization of World Heritage Cities \(OWHC\)](#)

Potosí, Bolivia

Grouped by UNESCO region. Select to view environmental profile and similarity.

Similar (env)

Similar (semantic)

Environmental p

High Altitude / Co

Summary

Bioclimate zone

Bioclimate stratum

Land cover

Elevation (point, m)

Elevation min (basin, m)

Elevation max (basin, m)

Relief position (0–1)

Runoff (mm/yr)

Discharge (m³/s, yr)

Ecoregion

Population density

Composite

Environment

History

Culture

Modern

Cool temperate and dry

H8

Sparse herbaceous or sparse shrub cover

3989

3231

4980

0.433


54

1.78

Central Andean puna

77.59

A — Physiographic bedrock



Similar Cities (History)

computed from Wikipedia text embeddings using cosine similarity

1. Sucre, Bolivia	sim: 0.635	■
2. Arequipa, Peru	sim: 0.634	■
3. Quito, Ecuador	sim: 0.574	■
4. Cuenca, Ecuador	sim: 0.557	■
5. Lima, Peru	sim: 0.549	■

WH Cities

- City dropdown
- on selection
 - Env Profile
 - find similar on env dimensions
 - find similar on on of 4 semantic dimension “bands” (derived from Wikipedia text)

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Main Basins Ecoregions WH Cities WH Sites

20 World Heritage sites

Timbuktu

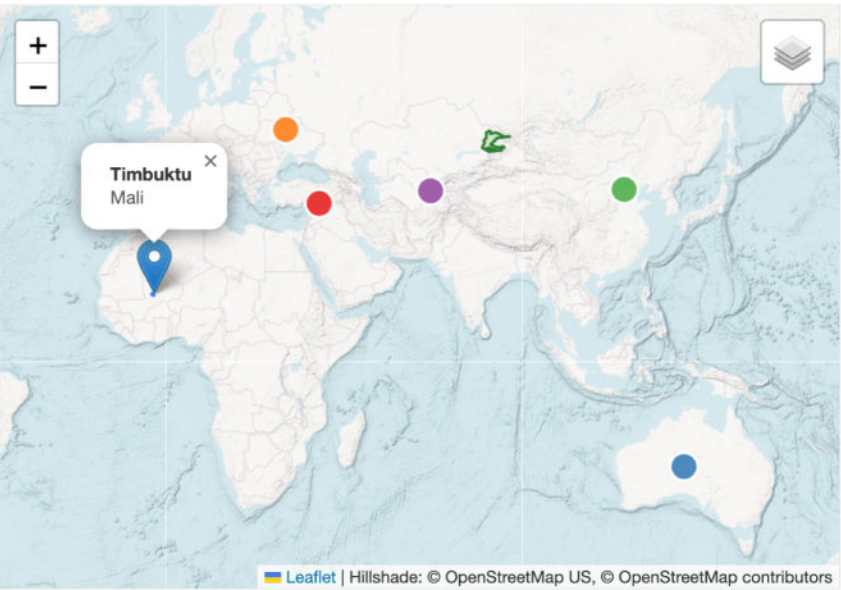
Hide description Similar (env) Similar (semantic)

Home of the prestigious Koranic Sankore University and other madrasas, Timbuktu was an intellectual and spiritual capital and a centre for the propagation of Islam throughout Africa in the 15th and 16th centuries. Its three great mosques, Djingareyber, Sankore and Sidi Yahia, recall Timbuktu's golden age. Although continuously restored, these monuments are today under threat from desertification.

Environmental profile

Arid Heritage Crossroads

Summary	
Bioclimate zone	Extremely hot and xeric
Bioclimate stratum	Q5
Land cover	Sparse herbaceous or sparse shrub cover
Elevation (point, m)	263
Elevation min (basin, m)	262
Elevation max (basin, m)	276
Relief position (0–1)	0.071
Runoff (mm/yr)	18
Discharge (m³/s. vr)	0.711



Similar Sites (Environmental)

computed from the multivariate environmental profile using dimensionality reduction and clustering

1. Göbekli Tepe	dist: 8.69	
same cluster		
2. Uluru-Kata Tjuta National Park	dist: 9.1	
Subtropical/Arid Wilderness		
3. Summer Palace, an Imperial Garden in Beijing	dist: 11.11	
Temperate Lowland Heritage		
4. Samarkand – Crossroad of Cultures	dist: 11.23	
same cluster		

20 WH Sites

- Select site from dropdown
- retrieve Env Profile for containing basin
- toggle English description
- find similar (env)
- find sim (semantic) using Wikipedia text embeddings