

Environmental Dimensions of Place (EDOP)

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

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[WHG API](#) [EDOP Gazetteer](#) [Coordinates](#)

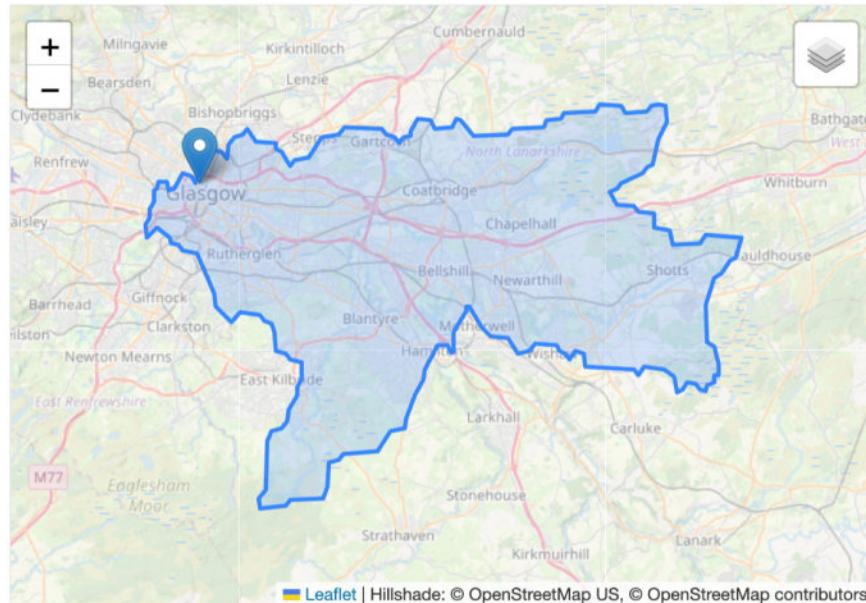
Glasgow [hide](#)

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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Glasgow

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

[Similar \(env\)](#)

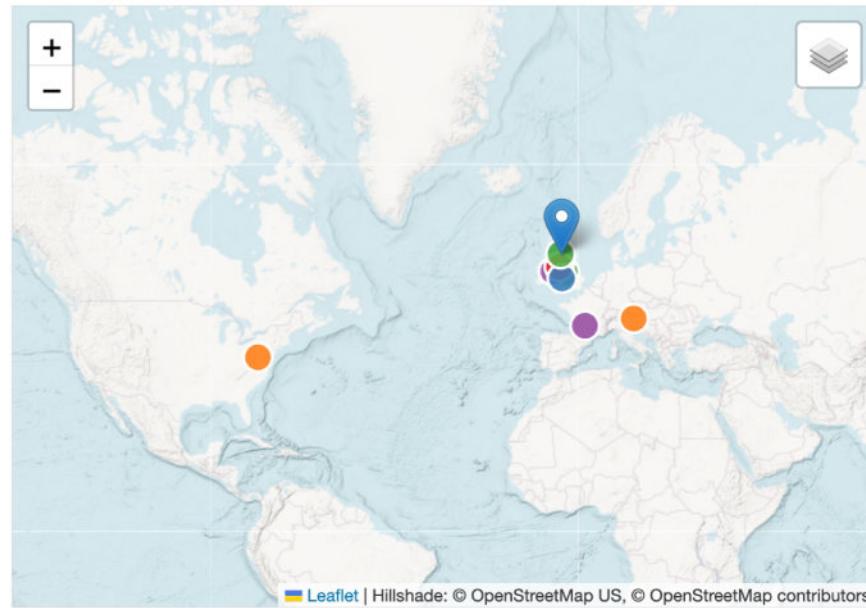
Environmental profile

Summary

Bioclimate zone	Cool temperate and moist
Bioclimate stratum	J1
Land cover	Artificial 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
Ecoregion	Celtic broadleaf forests
Population density	1423.0970458984375

A — Physiographic bedrock [^](#)

elev min



Main > EDOP Gaz

- search place name in bespoke gazetteer of 97k places
- returns env profile (signature) and sub-basin feature mapped
- find 5 most places in EDOP gazetteer (of 97k)

Main > Coordinates

Environmental Dimensions of Place (EDOP)

Main

Basins

Ecoregions

WH Cities

WH Sites

Resolve place

[reset filter](#)

WHG API

EDOP Gazetteer

Coordinates

Longitude

Latitude

e.g. -2.99944

e.g. 16.77333

[Get Signature](#)

[Use Timbuktu](#)

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

Environmental Dimensions of Place (EDOP)

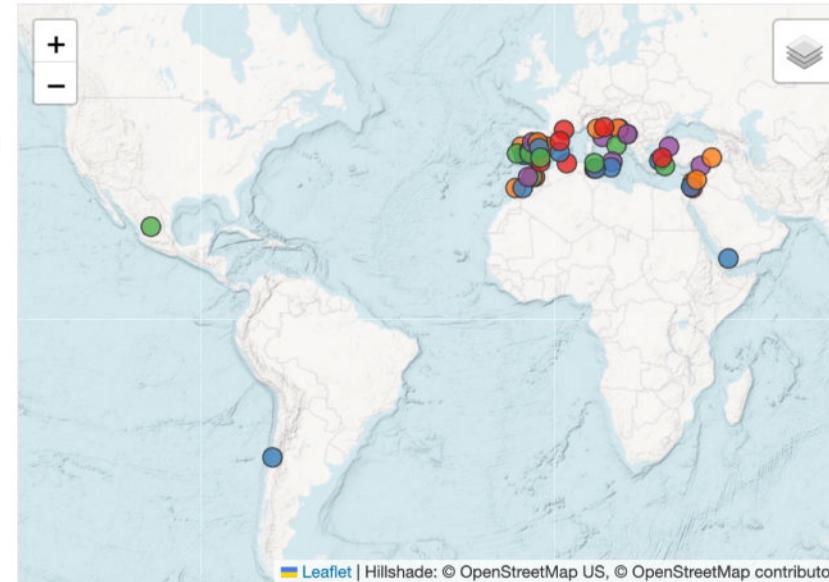
Prototype, Jan. 2026. [API docs](#)

Main Basins Ecoregions WH Cities WH Sites

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

Environmental Dimensions of Place (EDOP)

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

Main Basins Ecoregions WH Cities WH Sites

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

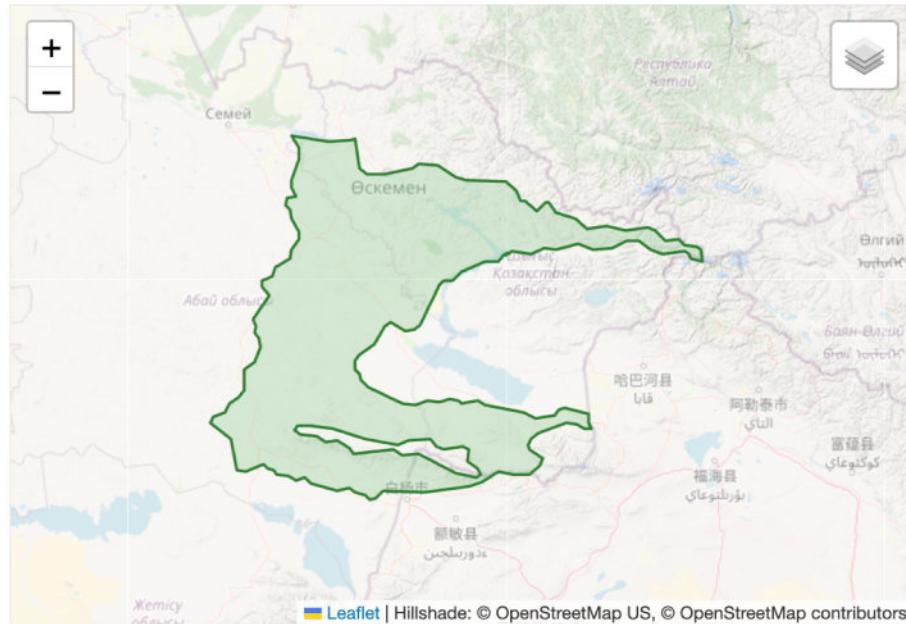
Junggar Basin semi-desert

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 \(OWHC\)](#)

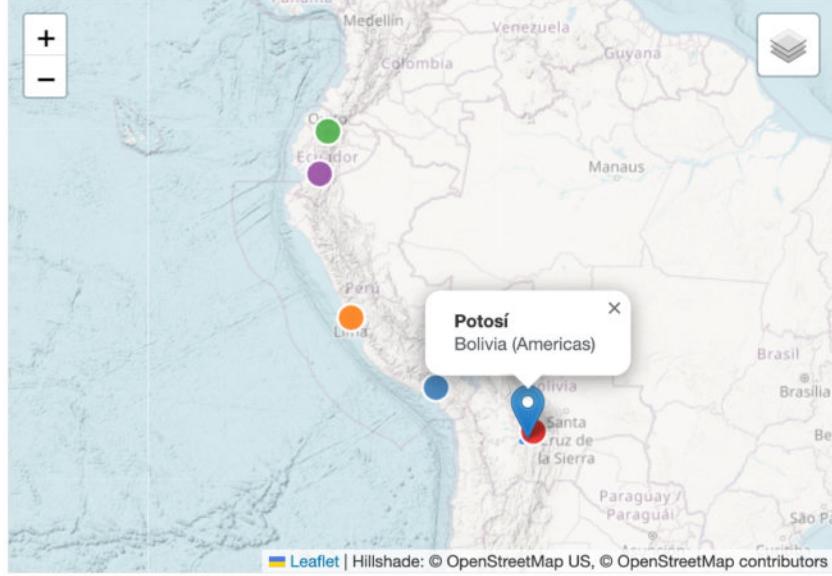
Potosí, Bolivia

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

Similar (env) ▾ **Similar (semantic) ▾**

Environmental profile	
High Altitude / Climate	Composite
Summary	Environment
Bioclimate zone	Cool temperate and dry
Bioclimate stratum	H8
Land cover	Sparse herbaceous or sparse shrub cover
Elevation (point, m)	3989
Elevation min (basin, m)	3231
Elevation max (basin, m)	4980
Relief position (0-1)	0.433
Runoff (mm/yr)	54
Discharge (m³/s, yr)	1.78
Ecoregion	Central Andean puna
Population density	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)

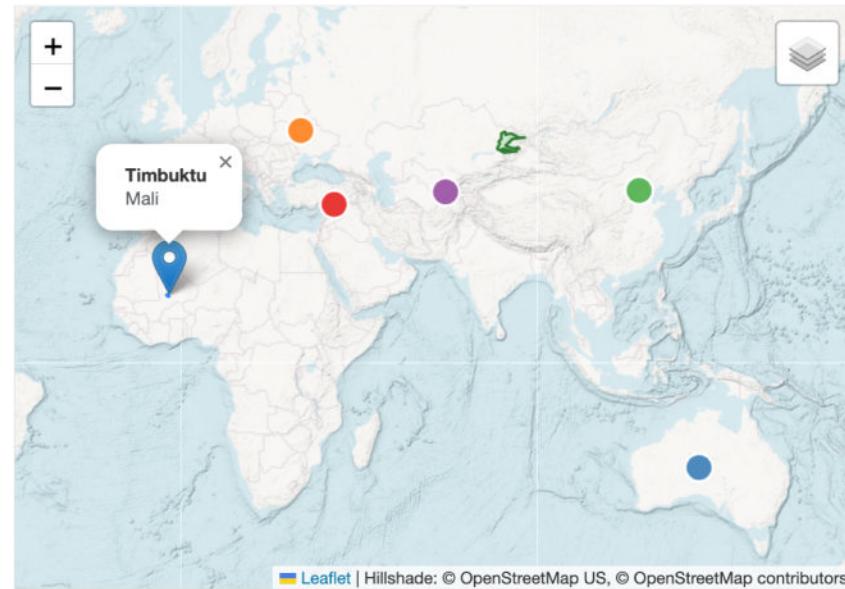
Main Basins Ecoregions WH Cities WH Sites

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

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