Obsidian evidence and least-cost path scenarios

This package accompanies “From distant volcanoes: obsidian and early Neolithic connections on the Şanlıurfa plateau”. It contains the evidence register, the complete source–site matrix, sensitivity results, model inputs and code, figure scripts and the interactive map.

Start with Supplementary methods and the file guide. The methods are also supplied as Word and PDF files. Table S1 is the editable evidence register. Table S2 gives the 22 base path comparisons. Full path coordinates and all 54 principal sensitivity calculations are in data/complete_matrix/.

These supplementary materials are available from Zenodo at https://doi.org/10.5281/zenodo.23318701 and accompany the submission. package_metadata.json records their access status; build_manifest.json and FILE_INVENTORY.tsv identify the files. The public Netlify map may differ from the copy supplied here.

The model code and cached terrain tiles support reproduction of the calculations. Source-publication PDFs are not redistributed.

To check the supplied results, run python source/verify_complete_matrix.py from the extracted package. Full calculation commands and requirements are given in the supplementary methods. The paths describe conditional model scenarios, not demonstrated Neolithic journeys or source assignments.