Project Information	
Survey name	Cluster 23
Survey index	**Small Square Enclosure**
Survey purpose	To examine the eastern wall of a small enclosed square feature (possible entrance)
Report summary	Survey indicated a possible gate entrance area within the east wall of the enclosed square. GPR was done in conjunction with fluxgate gradiometry to examine whether an entrance could be identified and also to determine the vertical stratigraphy of the rammed earth wall feature.
Bibliographic references	Hanks et al. 2024 - published article; Levi-Shelach et al. 2023 - see sources in article bibliography
Survey key words	Medieval Wall System, Liao Dynasty, Geophysical survey, enclosed monuments
Spatial coverage	20m x 20m; 400 sq. meters
Country	Mongolia
Administrative area	N/A
Geology	Typical loess sediments, site located on the western margin of Holocene silty sediments likely of lacustrine origin
Duration	Aug.7, 2022
Weather	Hot and sunny
Soil condition	Dry
Land use	Wild grassland - pasture for herd animals
Monument type	Medieval wall system cluster enclosures (small square)
Monument period	AD 916-1125
Surveyor	Bryan Hanks
Project	2022 Cluster 32 Geophysical Survey, The Wall Project (ERC funded)
Archive	Center for Comparative Archaeology Data Base: https://www.cadb.pitt.edu
Copyright	Geophysics dataset: Bryan Hanks, University of Pittsburgh
Geophysics metadata	
Survey type	**Ground Penetrating Radar**
Instrumentation	Sensors and Software Noggin SmartCart GPR 500 mHZ antenna
Magnetic north	grid set up using magnetic handheld compass
Reasons for choice of method	Method employed to determine whether a gate entrance could be identified in eastern earthen wall of small square feature; also to examine vertical stratigraphy of rammed earth wall
Area surveyed	1 grid, 20m x 20m: 400 square meters
Method of coverage	forward collection, all traverses from west to east, starting in NW corner
Traverse separation	1.0m
Reading interval	0.02m along the traverse line
Data grid size	20m x 20m
Accuracies	Some variation of grid occurred as it was set out over the eastern wall of a banked enclosure approximately 3 meters in height
Survey methodologies	Use of marked ropes (every 1m) for traverse lines

Data treatment	Data downloaded to Sensors and Software EkkoProject version 6. Available datasets on CADB include original raw data file line files (.gpz) and other generic formats (.csv,.DT1, .HD) for individual line files. Slice view levels also are availalbe as .csv files.
Additional notes	N/A