Wimpole Estate Brickend

On 23rd April 2006 Archaeology RheeSearch carried out a magnetometer and a resistivity survey at Brick End on the Wimpole Estate in Cambridgeshire.

Conditions: Predominately low grass with some minor track rutting. A south facing slighty sloping field with a brook at the bottom. Northern edge post and wire fence running parallel to the brook. Access road to the east, access point at south east corner.
Weather: Warm, humid; drizzle and noticeable temperature fall later. Previous week cool with some rain.
Soil: Not examined in detail, but generally moist with occasional stones.
Equipment: Bartington 601 gradiometer; TRCIA 50cm twin probe.

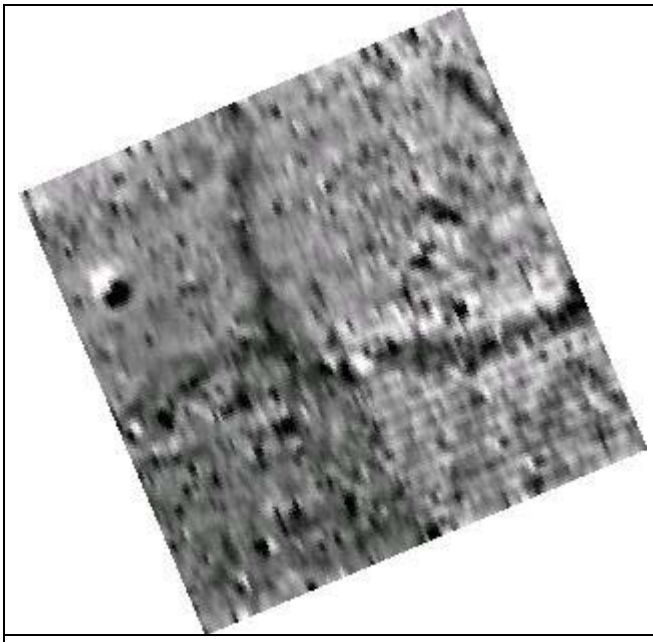
Area covered:	Magnetometer	four 30x30m grids (60x60m)
	Resistivity	two 20x20m grids (20x40m)

Location: TL 339517 820m NNE of Wimpole Hall
(All images are orientated with north to the top of the page)

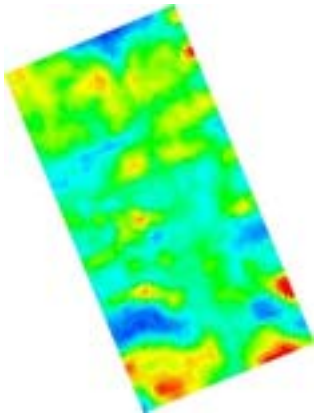
Location showing grid corners with resistivity plot. NW corner 115m from roadside fence and 5m south parallel to cross field fence

Purpose of Survey: To locate evidence supporting a moat structure shown on a map of 1815 of the site (reference unknown)
supplied by Simon Damant (estate forester).

Results



Magnetometer Survey



Blue low
Red high

Resistivity Survey

Discussion:

Magnetometry results show a clear feature coincident with the south east corner of the moat on the 1815 map. There does however seem to be a spur from the moat running in a curve to the western edge of the surveyed area, and no suggestion of the moat run-off to the south. One large anomaly is present as an isolated feature towards the northwest.

Resistivity results were unfortunately, given the magnetometer results, south of the moat with only an edge being detected on the north of the survey area. The southern low and high resistance areas are outside the magnetometer survey area.

Despite a good fit between the 1815 map and existing boundaries, the actual location and shape differs from the map. The proximity of another stream running down the field combined with the magnetometry feature running west from the corner of the moat and the lack of a feature running south, could suggest that the run-off followed this stream.

Magnetometry survey superimposed on 1815 map and current map features.

Resistivity survey superimposed on 1815 map and current map features.

Appendix 1 Resistivity Raw Data

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Appendix 1 Resistivity Raw Data

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Appendix 2 Magnetometry Raw Data

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Method of collection = ZigZag
Starting Direction = SouthWest
Data Range = 100 nT
Line Spacing = 1.00 m
Sampling = 4 samples / m
Sensor Spacing = 1.0 m
Mean = -1.1
Max = 21.4
Min = -15.9

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Appendix 2 Magnetometry Raw Data

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Date = 23/04/2006
Grid Number = 2 NW quadrant
Number of Sensors = 1
Grid Size = 30 x 30
Method of collection = ZigZag
Starting Direction = SouthWest
Data Range = 100 nT
Line Spacing = 1.00 m
Sampling = 4 samples / m
Sensor Spacing = 1.0 m
Mean = -1.7
Max = 22.8
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Appendix 2 Magnetometry Raw Data

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Starting Direction = SouthWestt
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Appendix 2 Magnetometry Raw Data

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Date = 23/04/2006
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Number of Sensors = 1
Grid Size = 30 x 30
Method of collection = ZigZag
Starting Direction = SouthWest
Data Range = 100 nT
Line Spacing = 1.00 m
Sampling = 4 samples / m
Sensor Spacing = 1.0 m
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Appendix 2 Magnetometry Raw Data

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Appendix 2 Magnetometry Raw Data

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