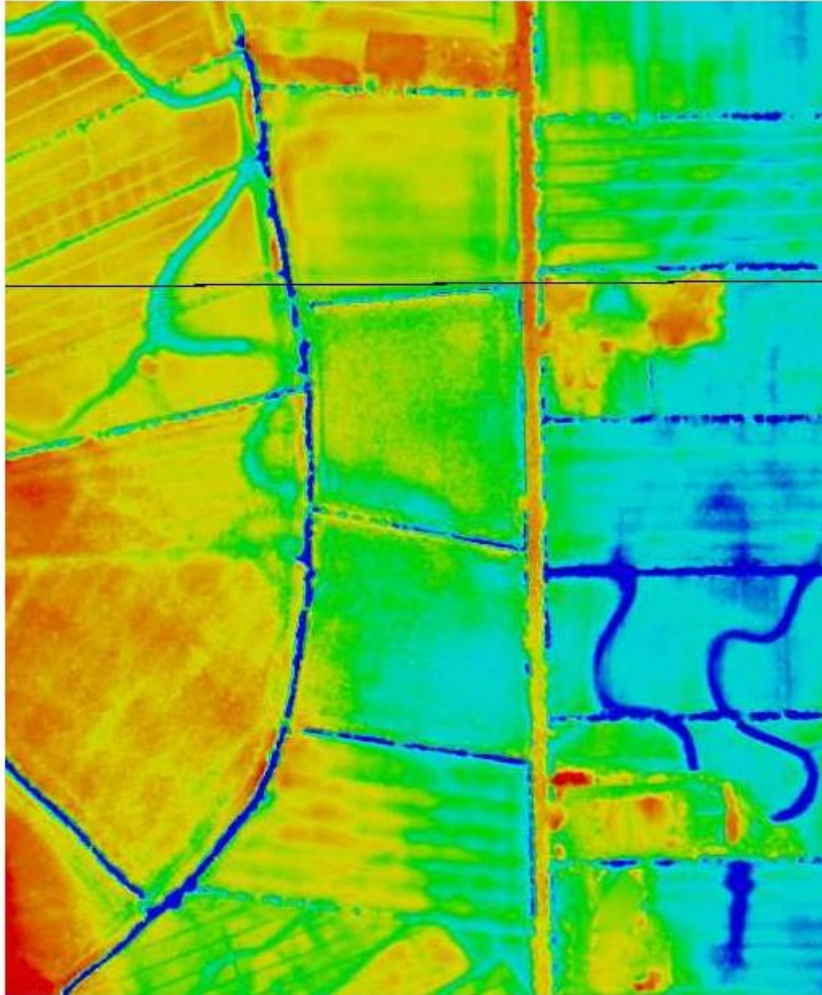


YCCCART 2016/Y2 A

Gradiometry surveys at Kenn Moor Road, Yatton

**YATTON, CONGRESBURY, CLAVERHAM AND CLEEVE ARCHAEOLOGICAL RESEARCH
TEAM (YCCCART)**

General Editor: Vince Russett



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4	Results including TerraSurveyor charts
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Introduction

Gradiometry surveys at Kenn Moor Road Yatton, reported in YCCCART 2016/Y2, revealed a buried sinuous north-south palaeochannel beneath the latest alluvium in the area, not visible at the surface and probably of Roman or earlier date. A circular magnetic anomaly alongside it could be a Roman or earlier round house.

This report provides results from each field surveyed plus the associated day sheet information.

Mr Crossman 2

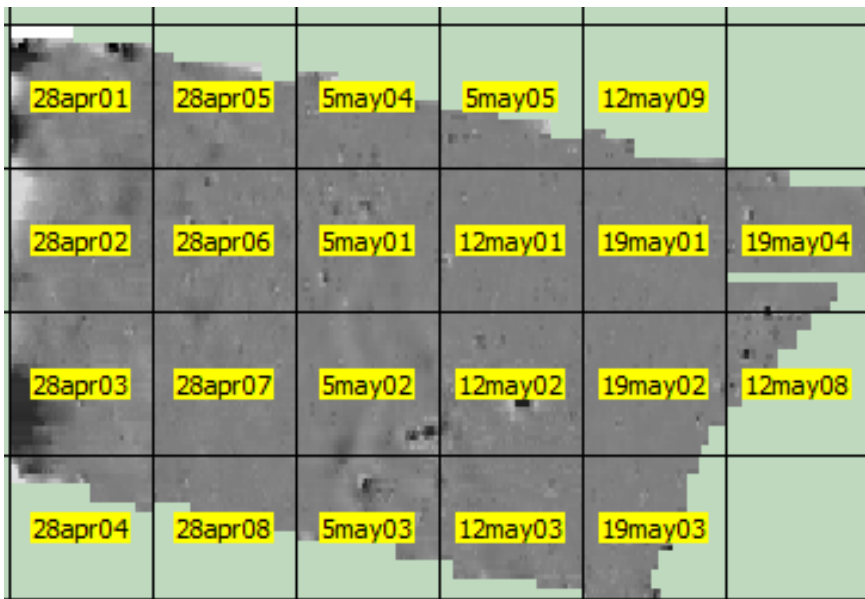


Fig 1: TerraSurveyor file names.

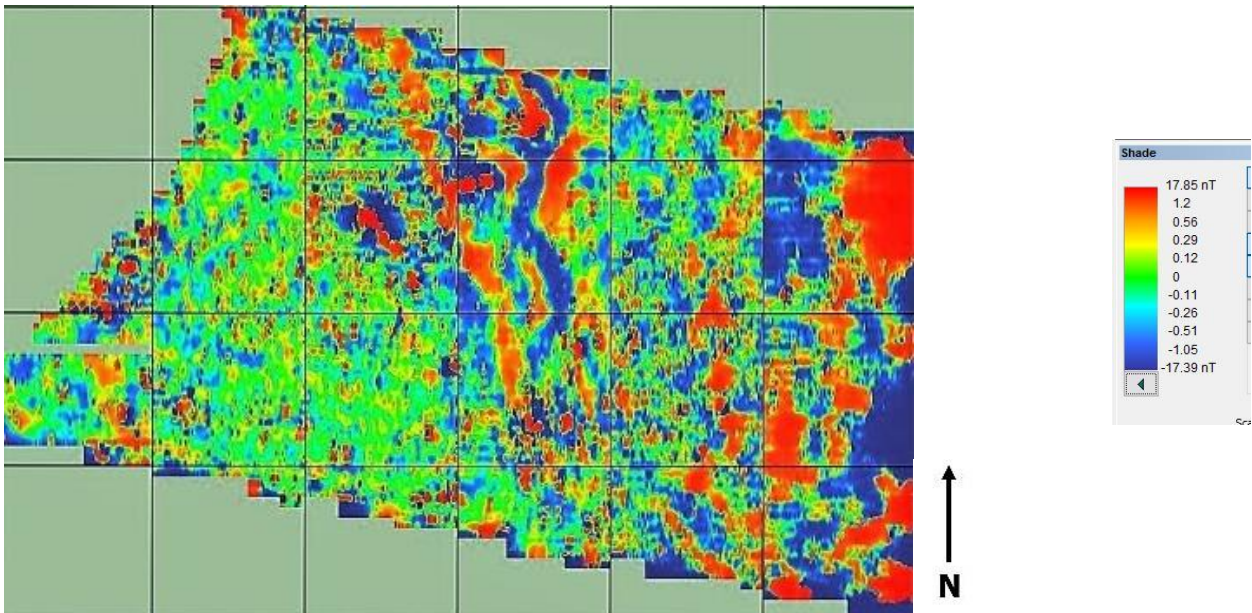


Fig 2: TerraSurveyor shade image. High readings are red. Low are blue.

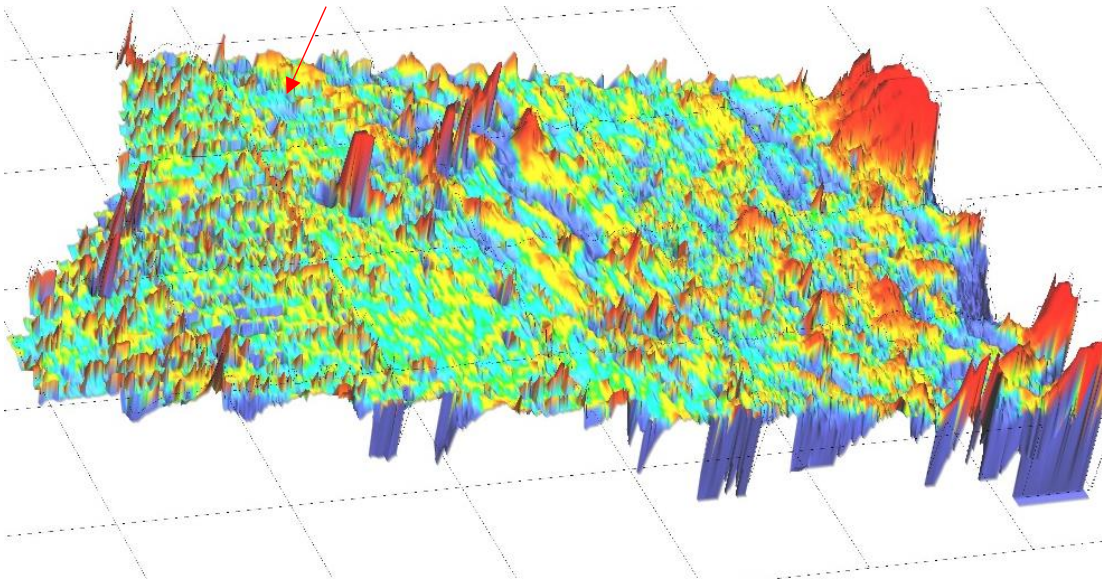


Fig 3: TerraSurveyor Axonometric view. High readings red, blue low.

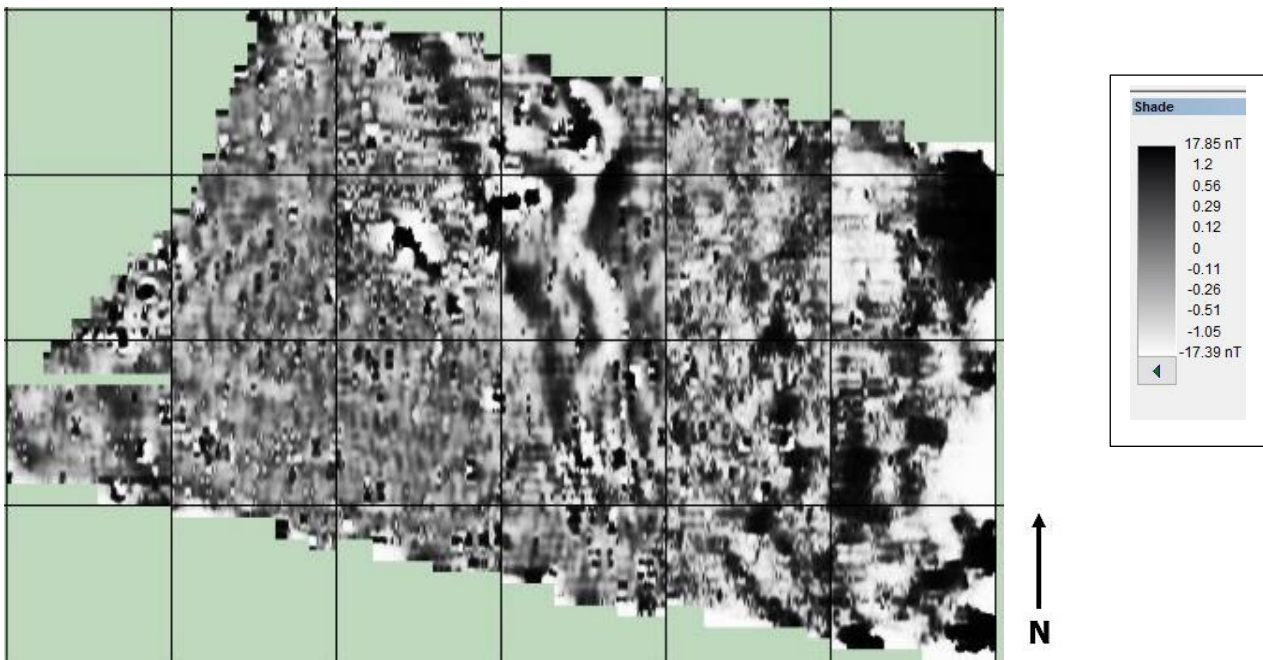


Fig 4: TerraSurveyor shade black and white image. High readings are black.

Mr Crossman 3

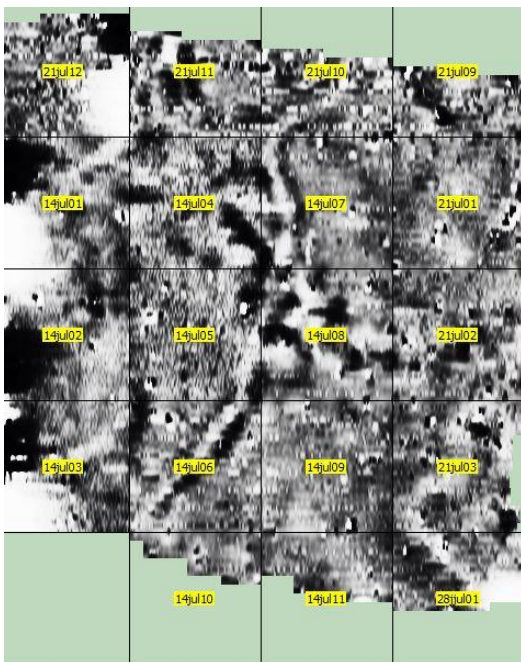


Fig 5– TerraSurveyor file names.

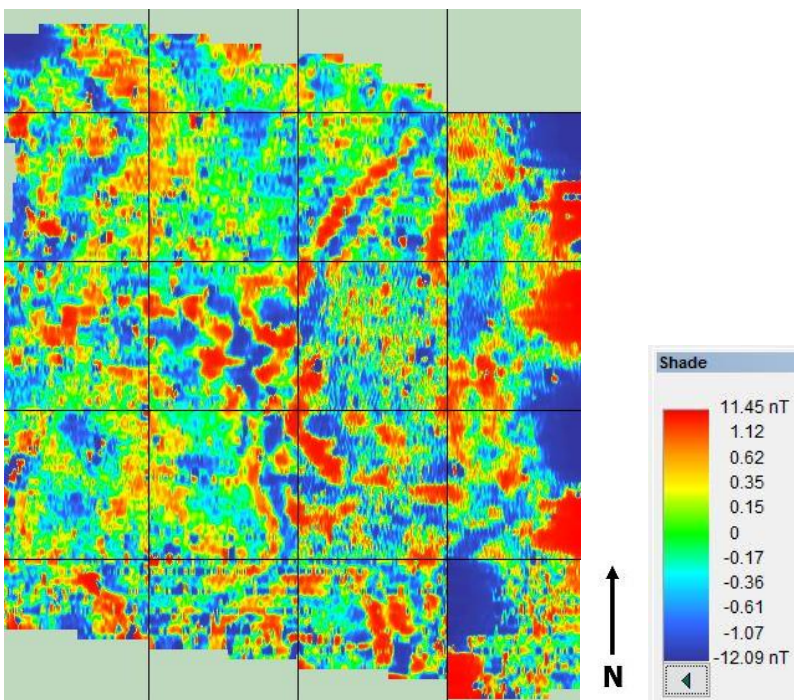


Fig 6: TerraSurveyor shade image. High readings are red. Low are blue.

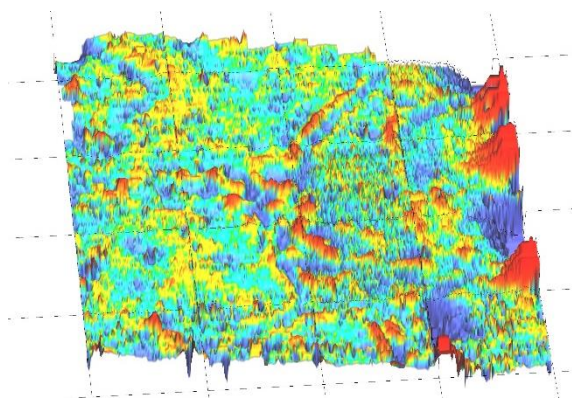


Fig 7: TerraSurveyor Axonometric view. High readings red, blue low.

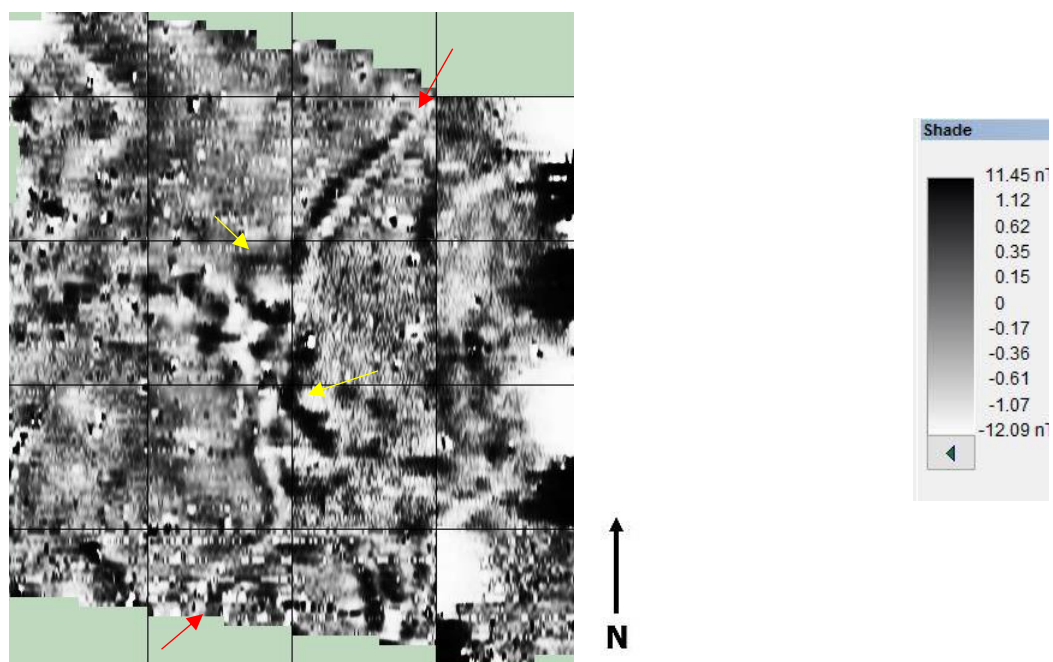


Fig 8: TerraSurveyor shade black and white image. High readings are black.

A) Mr Crossman 4

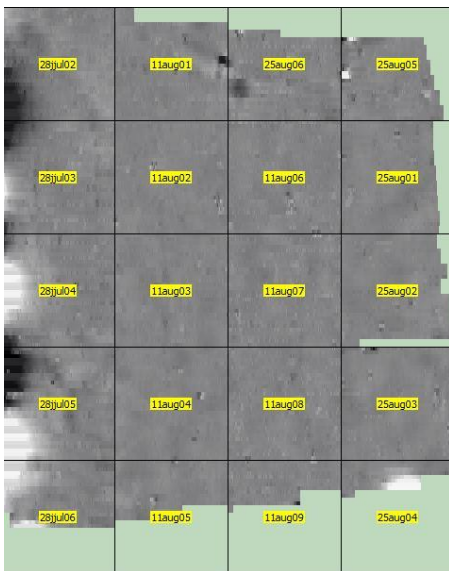


Fig 9: TerraSurveyor file names.

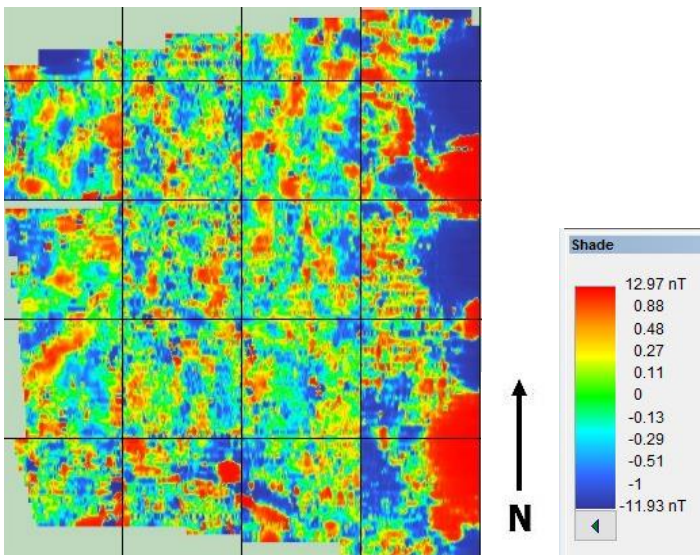
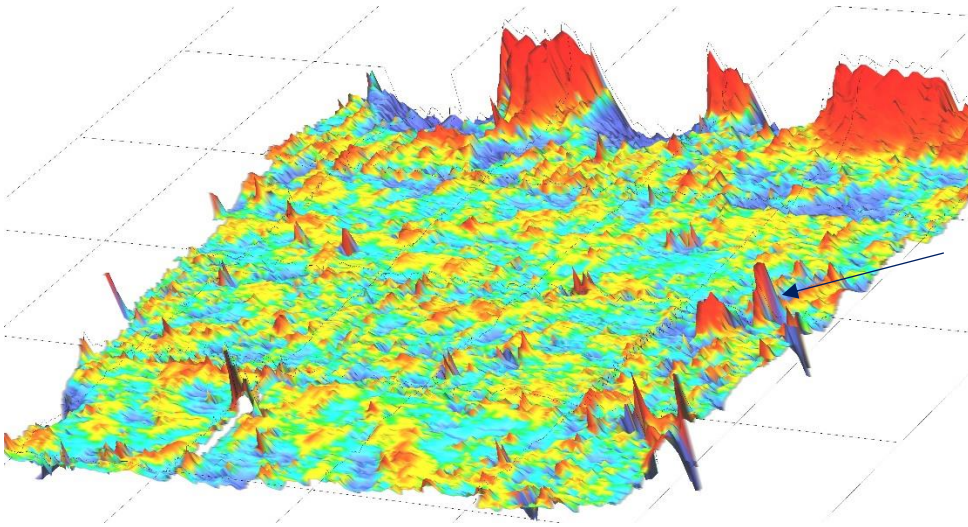


Fig 10: TerraSurveyor shade image. High readings are red. Low are blue.



*Fig 11
Axonometric
view. High
readings red,
blue low.*

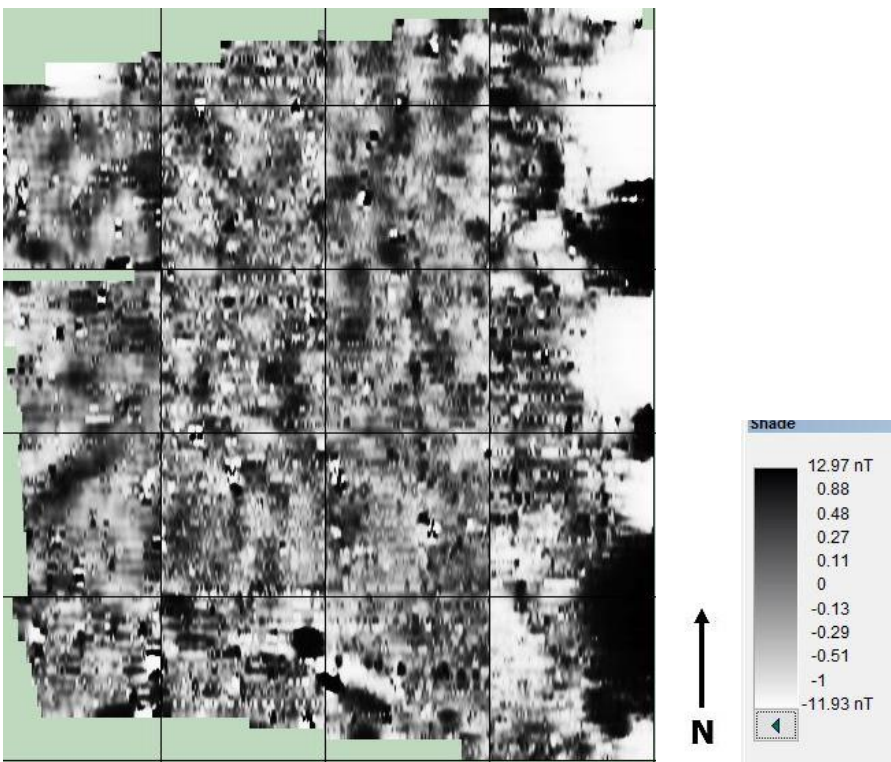


Fig 12: TerraSurveyor shade black and white image. High readings are black.

Mr Crossman 5

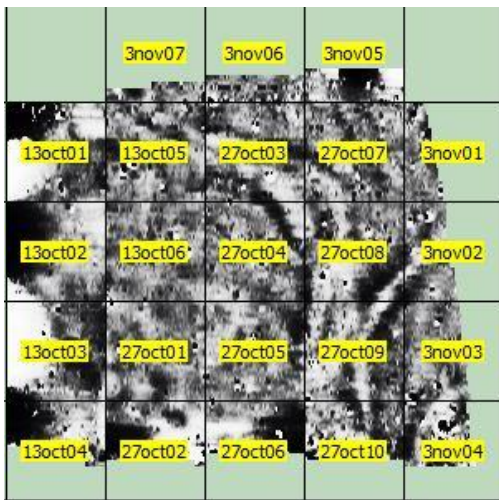


Fig 13: TerraSurveyor grids

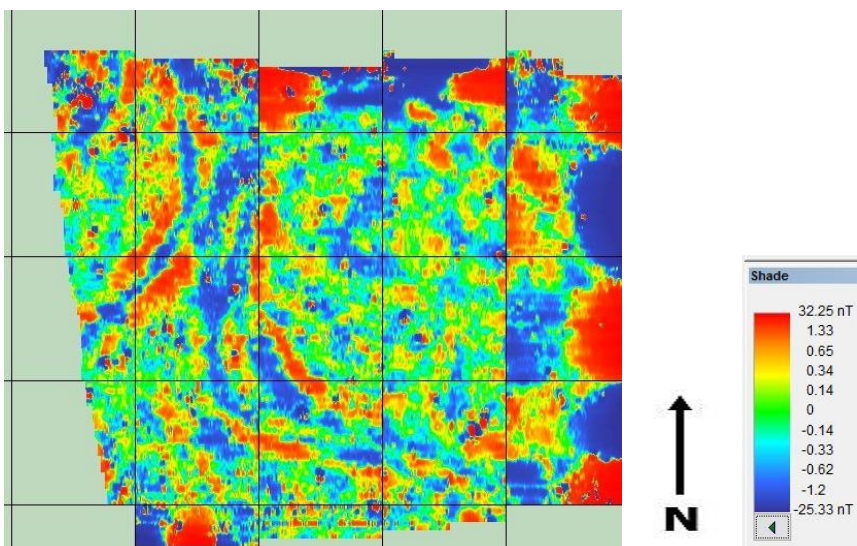


Fig 14: TerraSurveyor shade image. High readings are red. Low are blue.

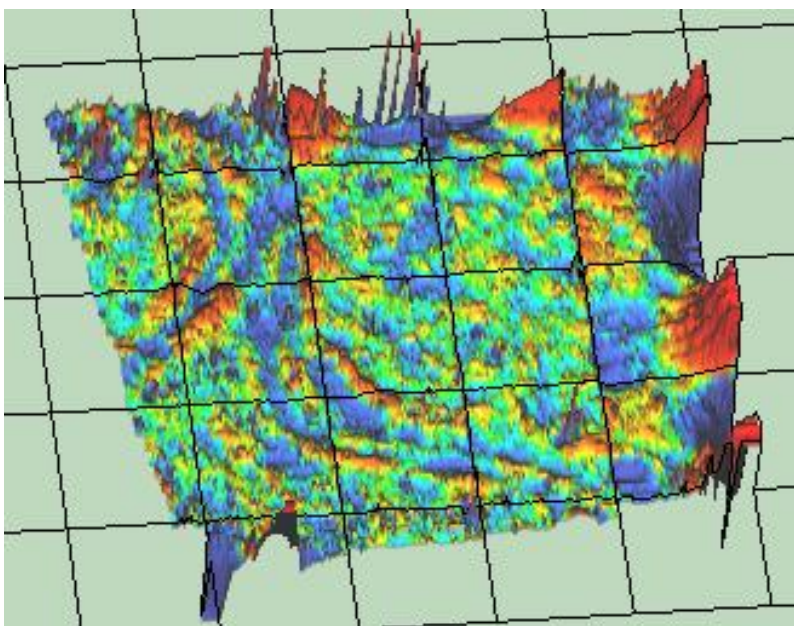


Fig 15: Axonometric view. High readings red, blue low.

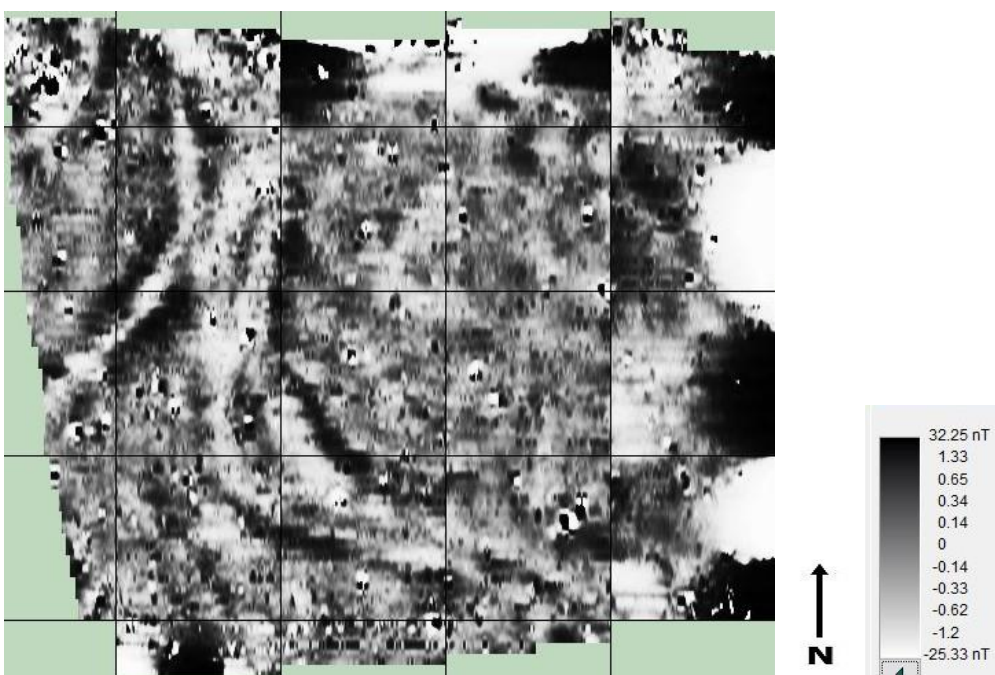


Fig 16 TerraSurveyor shade black and white image. High readings are black.

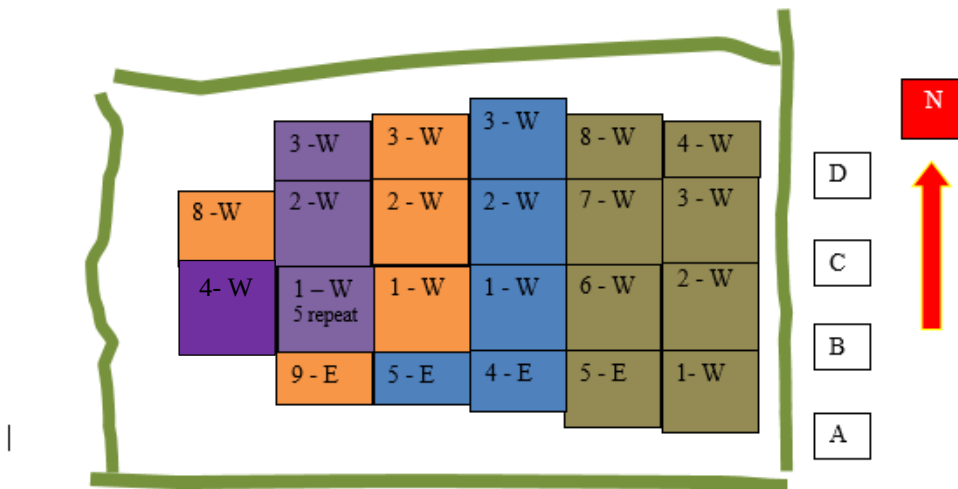
Day Sheets

YCCCART Site Survey		
Project – Crossman 2 – Yatton Moor		
Survey date	19 May 2016	
Report date	19 May 2016	
Type /Instrument	Grad 601	
	Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2	Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 Audio: On Threshold:30nT Reject:50 Hz
Location	Moor Lane, Yatton.	
Ref	none	
Site name	Crossman 2	
Landowner	Mr Crossman	
Tenant		
HER ref		
Site type	Grass	
Description	Open field surrounded by hedges and rhynnes	
Period		
Geology		
Land use	Grazing	
Survey team and conditions		
28/04/2016	Team	Ian, Pete Wright, Ferdie, Arthur Langley, David W & Phillipa
	Weather	Sunny intervals, cool.
05/05/2016	Team	Ian, Pete Wright, Ferdie, Arthur Langley, David W & Phillipa
	Weather	Sunny, warm
12/05/2016	Team	Ian, Pete Wright, Ferdie, Arthur Langley, David W & Phillipa
	Weather	Sunny, warm
19/05/2016	Team	Pete Wright, Arthur Langley, David W & Phillipa
	Weather	Sunny, warm

Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
28/04/2016		Setting out base line and grids for base line and first four rows				
	1	30 x 30 M & R 2 traverses metal gate, concrete block	W	+99.3	-100	-6.8
	2	30 x 30	W	+3.8	-44.6	-5.9
	3	30 x 30	W	+30.8	-25.8	-0.9
	4	Partial M & R traverses 4 & 5 Pylon in corner fence	W	+22.8	-100	-6.0
	5	30 x 30 M & R from traverse10 to end	E	+3.8	-23.2	-4.7
	6	30 x 30	W	+59.1	-45.0	-3.9
	7	30 x 30	W	+5.8	-12.0	-3.7
	8	30 x 30 M & R from traverse 6 to end	W	+3.6	-7.2	-4.0
5/05/2016	1	30 x 30	W	+11.4	-15.8	-4.8
	2	30 x 30	W	+12.1	-10.8	-4.5
	3	30 x 30 M & R last 2 traverses	W	+42.4	-23.9	-4.9
	4	Partial M & R	E	+41.1	-67.0	-5.2
	5	Partial M & R	E	+0.5	-16.7	-5.8
	6	30 x 30	W	+36.5	-19.2	-6.9
	7	30 x 30	W	98.1	-25.6	-6.9
	8	Partial M & R	W	+9.9	-44.9	-7.3
	9	30 x 30	W	+8.0	-11.2	-7.3
	10	30 x 30 M & R	W	+7.4	-24.8	-7.7
	11	Partial M & R Gate at end of last traverse	W	+1.6	-16.7	-5.5
	12	30 x 30 M & R	W	+6.0	-34.2	-5.7
	13	Partial M & R	W	+100	-100	-5.5
	14	Partial M & R * note the max is a negative number as recorded	E	-1.4	-10.8	-5.5
12/05/2016	1	30 x 30	W	+39.1	-22.8	-4.3
	2	30 x 30	W	+53.8	-24.2	-5.7

Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
	3	Partial M & R Last two traverses	W	+3.9	-10.6	-5.9
	4	30 x 30	W	+3.1	-9.7	-6.1
	5	30 x 30 M & R	W	+18.4	-25.7	-5.3
	6	Partial M & R	W	+2.6	-10.4	-6.0
	7	30 x 30 M & R	W	+5.3	-47.9	-6.5
	8	Partial M & R To traverse 11	W	+98.8	-100	-6.6
	9	Partial M & R 3 trav only	E	+4.4	-11.5	-6.4
	10* <i>repeat of 9</i>	Partial M & R	E	+4.1	-15.9	-6.1
	11* <i>repeat of 4</i>	30 x 30	W	+9.1	-11.4	-6.4
19/05/2016	1	30 x 30	W	+0.7	-9.5	-4.8
	2	30 x 30 M & R	W	+16.0	-18.5	-5.1
	3	Partial M & R	W	+12.0	-10.5	-4.6
	4	30 x 30 M & R	W	+1.9	-27.2	-5.5
	5 <i>repeat of grid 1 by AL to check</i>	30 x 30	W	-0.8 <i>minus</i>	-11.5	-6.4

NB Errors resulted in repeated grid surveys



Setting out detail

Position 0 on base line – G 3.15m, P 1.18m

Position 3 on base line – P 6.10m, H stanchion 5.75m

Position of quiet spot – F gate post 20.6m, N gate post 78.2m
E 342471.5
N 167635.6

Grids 1 - 8, 28/04/16
All grids surveyed West
except grid 5

Grids 1 - 14, 05/05/16
All grids surveyed West
except grids 4, 5 & 14 as
indicated

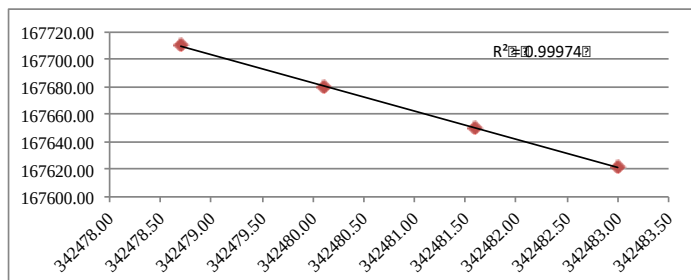
Grids 1 - 5, 19/05/16
All grids surveyed West
* note grid 5 repeat of
grid 1 as check

Grids 1 - 9, 12/05/16
All grids surveyed West
except grid 9. 7 10. Grid
10 is a repeat of grid 9
and grid 11 is a repeat of
grid 4 for comparison of
operators

Grid Ref. All ST

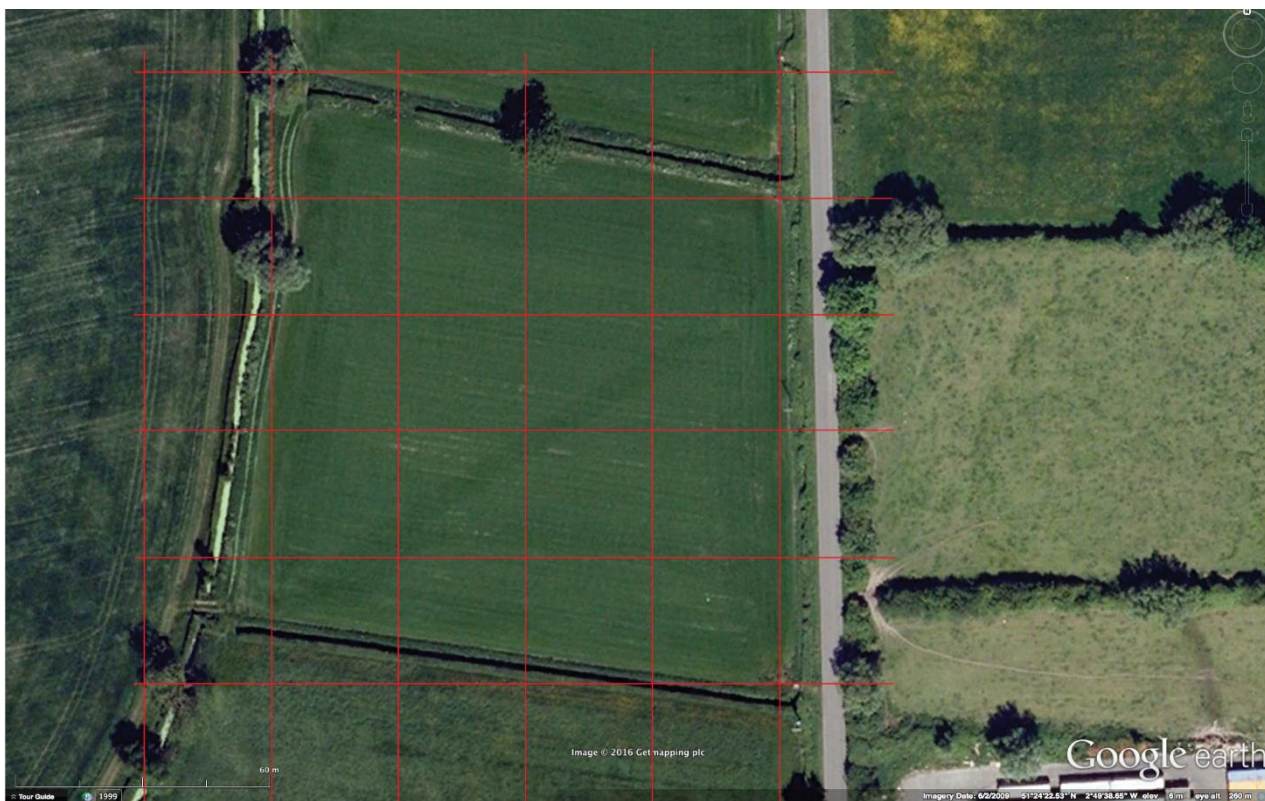
	eastings	northings
A	342483.00	167621.90
B	342481.60	167650.60
C	342480.10	167680.40
D	342478.70	167710.60

quiet spot 342471.5 167635.6

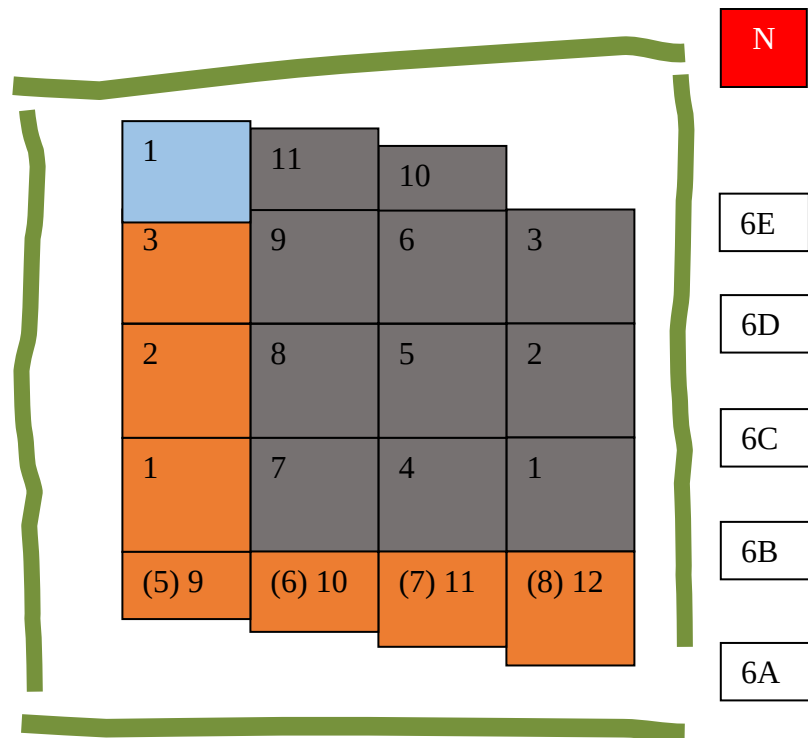


YCCCART Site Survey Project – Crossman 3 – Yatton Moor		
Survey date		28 July 2016
Report date		28 July 2016
Type /Instrument		Grad 601
		Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2 Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 Audio: On Threshold:30nT Reject:50 Hz
Location		Moor Lane, Yatton.
Ref		none
Site name		Crossman 3
Landowner		Mr Crossman
Tenant		
HER ref		
Site type		Grass
Description		Open field surrounded by hedges and rhynnes
Period		
Geology		
Land use		Grazing
Survey team and conditions		
14/07/2016	Team	Ian, Pete Wright, Ferdie, Arthur Langley, David W & Phillipa
	Weather	Sunny intervals, cool.
21/07/2016	Team	Ian, Pete Wright, Ferdie, Arthur Langley, David W & Phillipa
	Weather	Sunny intervals, warm
28/07/2016	Team	Ian, Pete Wright, Ferdie, Janet, Arthur Langley, David W & Phillipa
	Weather	Overcast cool dry, drizzle later

Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
14/07/2016		Setting out base line and grids for base line and first four rows				
	1	30 x 30	W	+53.0	-55.7	-1.5
	2	30 x 30	W	+33.8	-20.4	+0.2
	3	30 x 30 M & R last two traverses	W	+60.1	-75.7	-2.3
	4	30 x 30	W	+2.9	-4.4	-1.5
	5	30 x 30	W	+1.9	-11.4	-1.6
	6	30 x 30	W	+29.3	-4.9	-1.4
	7	30 x 30	W	+9.2	-7.3	-1.3
	8	30 x 30	W	+4.8	-10.0	-1.3
	9	30 x 30	W	+10.0	-17.8	-1.6
	10	Partial M & R 2 full traverses	W	+4.3	-3.3	-1.7
	11	Partial M & R	W	+1.9	-6.3	-2.0
21/07/2016	1	30 x 30	W	+65.9	-26.8	-1.0
	2	30 x 30	W	+12.8	-8.5	-1.2
	3	30 x 30 M & R 3 full trav	W	+99.3	-27.9	-0.6
	4	Partial M & R	W	+16.6	-85.2	-3.5
	5 ignore	30 x 30 M & R	E?	+60.1	-20.5	-1.7
	6 ignore	30 x 30 M & R	E?	+10.2	-5.8	-2.0
	7 ignore	30 x 30 M & R last 2 trav	E?	+1.1	-7.2	-2.5
	8 ignore	30 x 30 M & R last trav	E?	+86.1	-42.4	-2.0
	9	30 x 30 M & R	E	+34.1	-28.0	-2.6
	10	30 x 30 M & R	E	+19.2	-6.2	-2.8
	11	30 x 30 M & R last 2 trav	E	+0.1	-13.2	-3.1
	12	30 x 30 M & R last trav	E	+90.3	-40.0	-2.9
28/07/2016	1	Partial M & R Repeat of grid 4 on 21/07/2016	W	+23.5	-100	-0.3



Location of Crossman 3 and grids



Grids 1 - 28/07/2016
Repeat of grid surveyed
West

Grids 1 -11 14/07/16
All grids surveyed West

Grids 1 -12, 21/07/16
Grids 1- 4 surveyed
West. Grid data for 5 - 8
to be ignored as grids
repeated 9 – 12 surveyed
East

Setting out detail

Position 6A on base line – 3.35 from south gatepost (Yatton end) and 4.6 m from north gatepost (Clevedon end)

Position 6E on base line – 28m from 6D

Position of quiet spot 12.7m from RH gatepost (2 paint spots) and 10.6m from LH gatepost (1 paint spot)

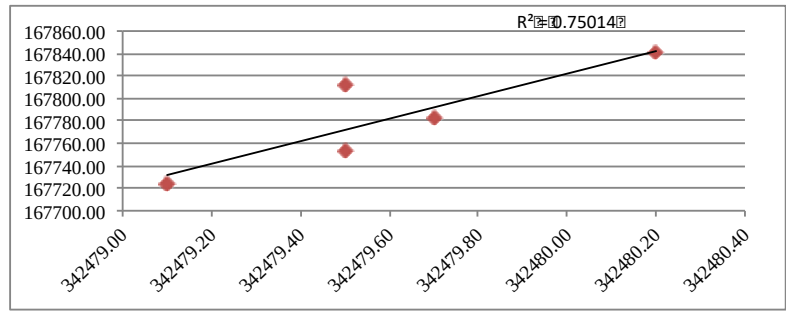
E 342467.2

N 167739.0

Grid Ref. All ST

	eastings	northings
6A	342479.10	167723.60
6B	342479.50	167753.40
6C	342479.70	167782.90
6D	342479.50	167812.50
6E	342480.20	167840.40

quiet spot 342467.2 167739

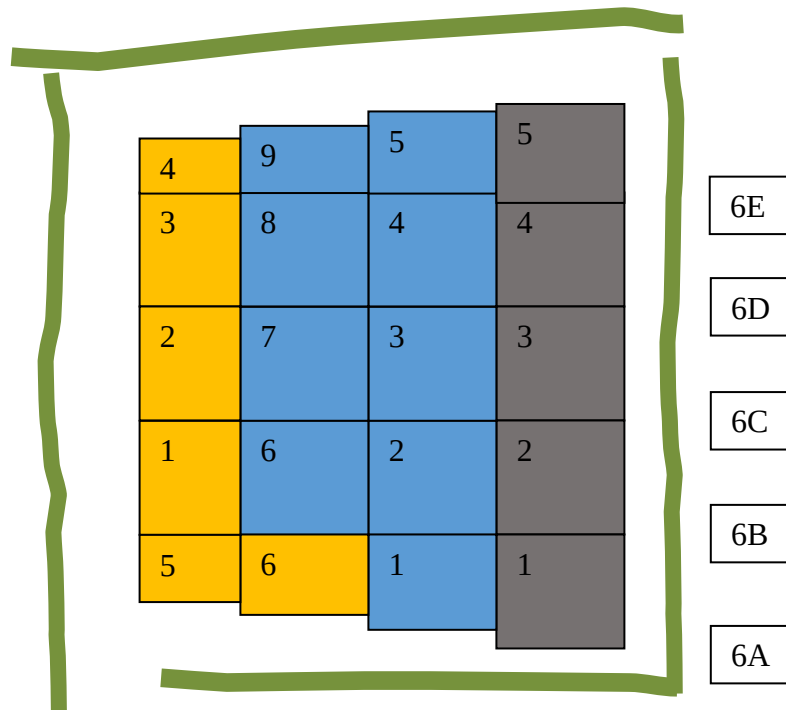


YCCCart Site Survey Project – Crossman 4 – Yatton Moor		
Survey date		18 August 2016
Report date		18 August 2016
Type /Instrument		Grad 601
		Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2
Location		Moor Lane, Yatton.
Ref		none
Site name		Crossman 4
Landowner		Mr Crossman
Tenant		
HER ref		
Site type		Grass
Description		Open field surrounded by hedges and rhynnes
Period		
Geology		
Land use		Grazing
Survey team and conditions		
28/07/2016	Team	Ian, Pete Wright, Ferdie, Janet, Arthur Langley, David W & Phillipa
	Weather	Overcast cool dry, drizzle later
11/08/2016	Team	Ian, MA, Ferdie, Janet, AD, David W & GB
	Weather	Overcast cool dry
18/08/2016	Team	Ferdie, Janet, Arthur Langley, David W
	Weather	Dry, hazy sunshine
25/08/2016	Team	Ferdie, Janet, Arthur Langley, David W, Phillipa
	Weather	Grey, overcast, wet grass

Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
14/07/2016		Setting out base line and grids for base line and first four rows				
28/07/2016	1	30 x 30	W	+34.1	-5.2	+3.2
	2	30 x 30	W	+47.2	-13.4	+3.0
	3	30 x 30	W	+16.1	-40.5	-0.3
	4	30 x 30	W	+61.7	-100	-0.1
	5	30 x 30 M & R last 2 trav	W	+5.1	-77.8	-1.6
11/08/2016	1	30 x 30 M & R trav 1 - 3	W	+7.3	-4.7	-0.2
	2	30 x 30	W	+10.8	-10.8	+0.8
	3	30 x 30	W	+5.5	-3.1	+0.3
	4	30 x 30	W	+21.9	-4.7	+1.0
	5	30 x 30 partial	W	+11.2	-8.0	+0.8
	6	30 x 30	W	+15.2	-10.3	+1.1
	7	30 x 30	W	+14.7	-13.1	+0.6
	8	30 x 30	W	+7.0	-3.4	+0.4
	9	30 x 30 partial M & R	W	+24.7	-4.3	+0.6
18/08/2016	1	30 x 30 M & R	W	+11.4	-1.7	+1.1
	2	30 x 30 M & R	W	+5.7	-13.2	+0.6
	3	30 x 30	W	+12.3	-3.9	+0.3
	4	Partial 2 full trav & 2 M & R	W	+7.0	-100	-6.0
	5	Partial M & R	E	+30.7	-100	+1.8
	6	Partial M & R	E	+23.0	-33.0	+2.3
25/08/2016 re – survey of 18/08/2016	1	30 x 30 M & R	W	+18.5	-1.4	+1.4
	2	30 x 30 M & R	W	+6.4	-17.9	+1.1
	3	30 x 30	W	+13.1	-9.5	+0.5
	4	Partial 2 full trav & 2 M & R	W	+4.7	-100	-0.5
	5	Partial M & R	E	+4.8	-100	-0.1
	6	Partial M & R	E	+8.1	-0.4	+0.1

Crossman 4 location and grids





Grids 1 -5 28/07/16
All grids surveyed West

Grids 1 -9 11/08/16
All grids surveyed West

Grids 1 -6 18/08/16 &
25/08/2016
Grids 1 - 4 surveyed
West & 5-6 East

Setting out detail

Position 6B on base line – 40.3m from Telegraph pole and 20.9 m from north gatepost (top sprayed white)

Position 6C on base line – 11.15m from Telegraph pole and 12m from north gatepost (top sprayed white)

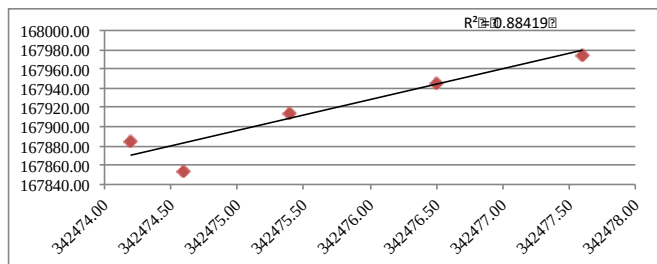
Position of quiet spot 12.7m from RH gatepost (2 paint spots) and 10.6m from LH gatepost (1 paint spot) in Crossman 3.

E 342467.2

N 167739.0

Grid Ref. All ST

	eastings	northings
6A	342474.60	167854.40
6B	342474.20	167884.40
6C	342475.40	167914.60
6D	342476.50	167944.70
6E	342477.60	167974.60



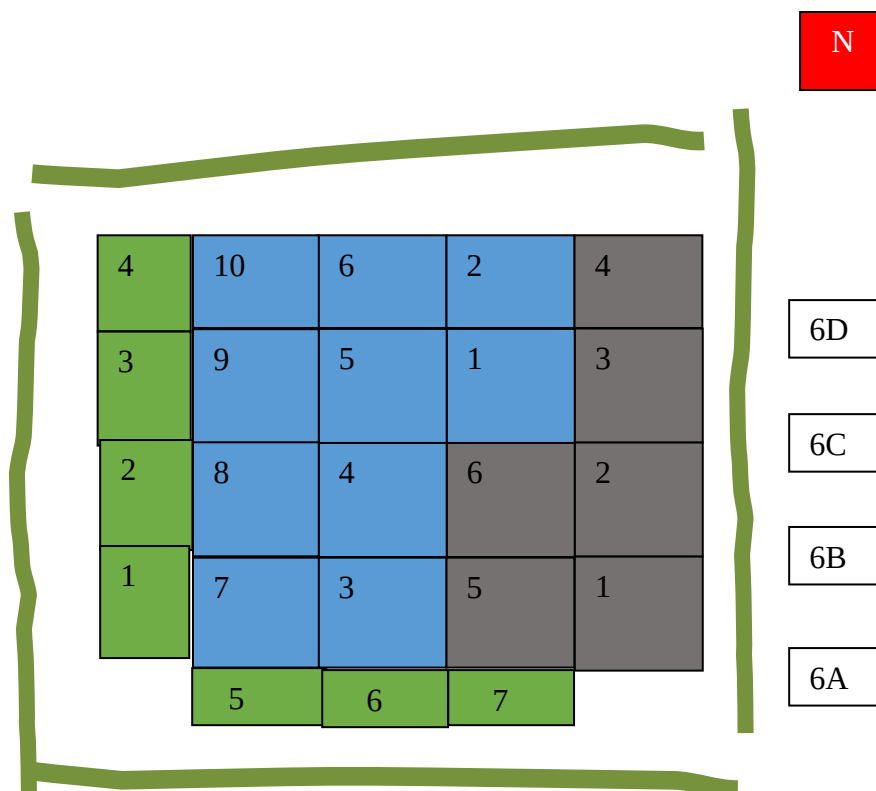
quiet spot 342467.2 167739

YCCART Site Survey		
Project – Crossman 5 – Yatton Moor		
Survey date	3 November 2016	
Report date	3 November 2016	
Type /Instrument	Grad 601	
	Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2	Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 Audio: On Threshold:30nT Reject:50 Hz
Location	Moor Lane, Yatton.	
Ref	none	
Site name	Crossman 5	
Landowner	Mr Crossman	
Tenant		
HER ref		
Site type	Grass	
Description	Open field surrounded by hedges and rhynnes	
Period		
Geology		
Land use	Grazing	
Survey team and conditions		
13/10/2016	Team	Pete Wright, Janet, Arthur Langley & Phillipa
	Weather	Dry & sunny
27/10/2016	Team	Pete Wright, Janet, Arthur Langley & Ferdi
	Weather	Dry & sunny but very wet underfoot
3 November 2016	Team	Pete Wright, Ian Morton & Ferdi
	Weather	Overcast/sunny, Grass damp

Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
13/10/2016		Setting out base line and grids for base line and first four rows				
	1	30 x 30	W	+100	-97.6	+2.9
	2	30 x 30	W	+69.5	-22.0	+4.1
	3	30 x 30	W	+17.1	-65.8	-4.8
	4	30 x 30 Partial 6 trav plus 2 trav M & R	W	+54.6	-21.8	+2.0
	5	30 x 30	W	+65.0	-1.4	+1.2
	6	30 x 30	W	+2.1	-14.2	+0.4
27/10/2016	1	30 x 30	W	+56.6	-23.9	-0.3
	2	30 x 30 Partial 6 trav	W	+96.0	-100.0	-10.4
	3	30 x 30	W	+9.5	-36.7	-0.6
	4	30 x 30	W	+3.0	-3.0	-0.5
	5	30 x 30	W	+5.6	-12.6	-0.8
	6	30 x 30 Partial 6 trav	W	+100.0	-100.0	-6.3
	7	30 x 30	W	+2.5	-5.2	-0.6
	8	30 x 30	W	+20.6	-12.5	-0.5
	9	30 x 30	W	+2.4	-12.6	-1.1
	10	30 x 30 Partial 6 trav	W	+95.3	-97.7	-0.6
3 November 2016	1	30 x 30 Partial	W	+65.1	-5.9	+1.1
	2	30 x 30 Partial	W	+37.8	-13.0	+0.8
	3	30 x 30 Partial	W	+18.1	-8.8	+0.5
	4	30 x 30 Partial	W	+94.2	-38.1	-0.6
	5	30 x 30 Partial	E	+27.4	-98.7	-1.8
	6	30 x 30 Partial	E	+46.9	-13.0	-0.9
	7	30 x 30 Partial	E	+2.8	-3.8	-1.9

Crossman 5 location and grids





Grids 1 -6 13/10/16
All grids surveyed West

Grids 1 – 10 27/10/2016
All grids surveyed West

Grids 1 to 7 3/11/16
All grids West except
5,6 & 7 East

Setting out detail

Position 6A on base line – 3.3 m from hinge-side of gate post (1white paint spot) and 3.4 from other ivy covered gatepost – entry to field

Position 6D on base line –

Position of quiet spot

E 342465.89

N 168015.44

Grid Ref : All ST

	eastings	northings
6A	342475.95	168001.80
6B	342475.59	168032.11
6C	342475.58	168062.76
6D	342474.49	168093.80