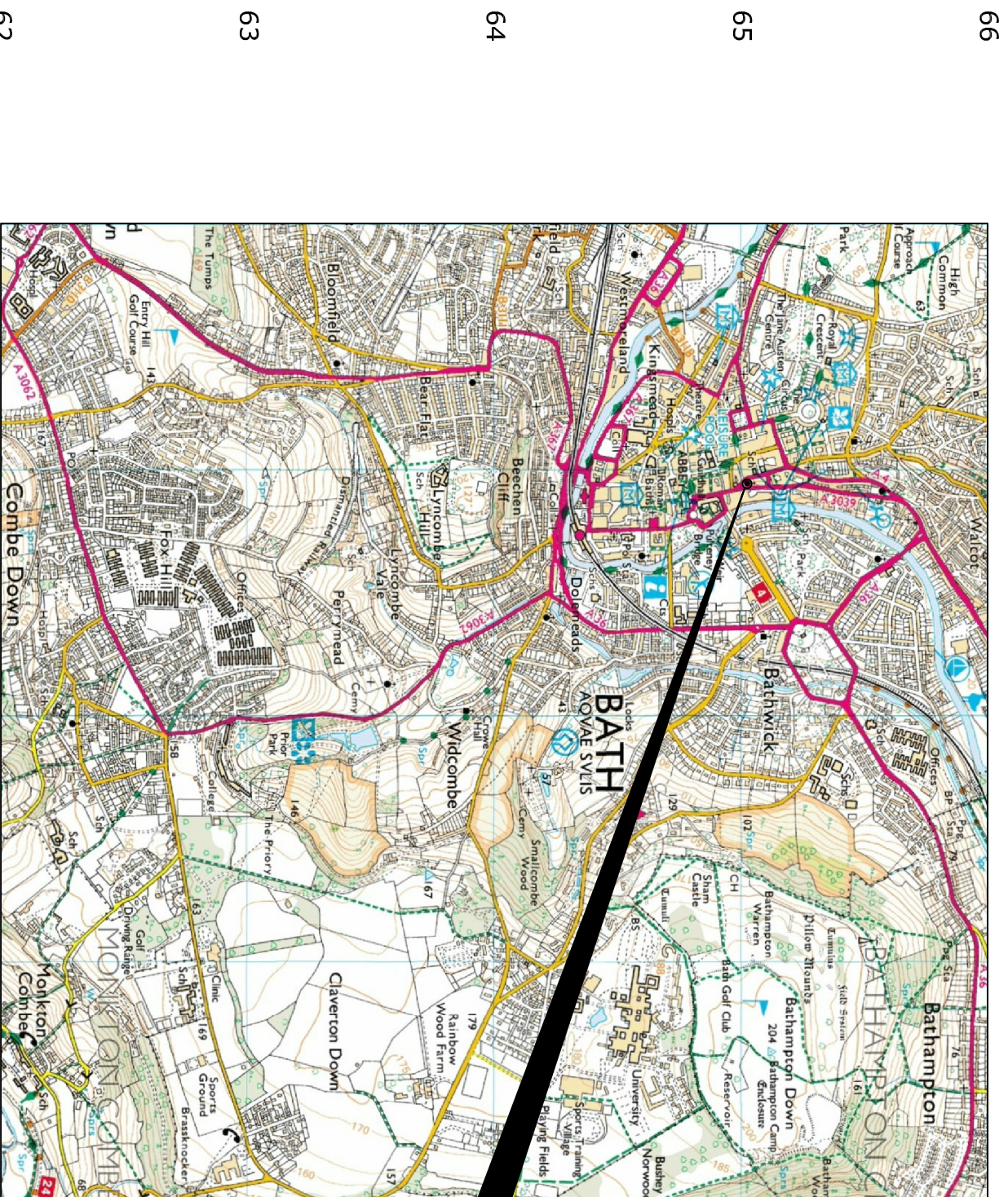


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 Stratascan Ltd,  
 Vineyard House  
 Upper Hook Road  
 Upton Upon Severn  
 WR8 0SA

OS 100km square = ST



Survey Area

62

63

64

65

66

74

75

76

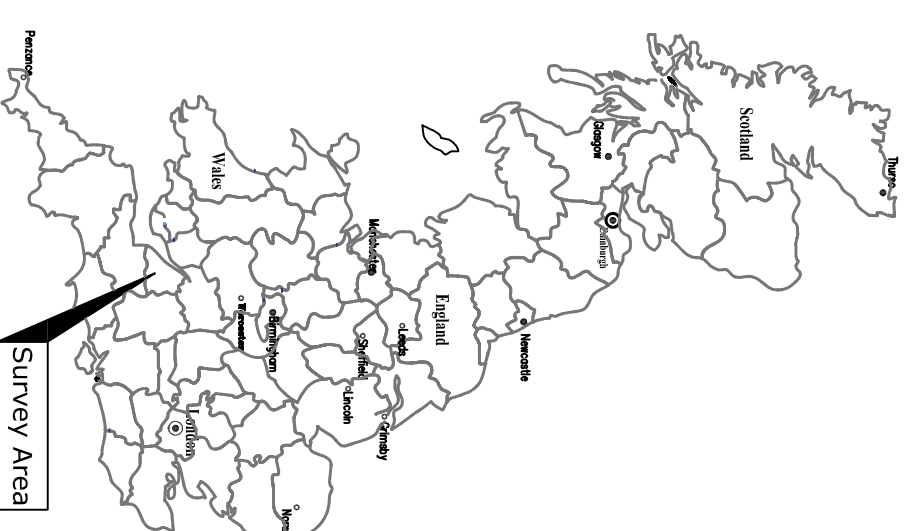
77

78

**Amendments**

Issue No.	Date	Description
-	-	-
-	-	-

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Survey Area

Site centred on NGR **ST 750 650**

Client  
**BENJAMIN + BEAUCHAMP**  
 ARCHITECTS LTD.

Project Title  
**ST MICHAEL'S WITHOUT, BATH**

Subject

Job No. 77123

**STRATASCAN**  
 GEOPHYSICS FOR ARCHAEOLOGY  
 AND ENGINEERING

VINEYARD HOUSE  
 UPTON UPON SEVERN E: info@stratascan.co.uk  
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**GPR** ASSOCIATION  
**SUMO** GROUP MEMBER  
 ISO 9001 certified  
 ISO 14001 certified  
 UKAS  
 UKAS

Scale **1:25000**  
 0m 500m 1000m

Plot	A3	Checked by	DGE	Issue No.	01
Survey date	JULY 14	Drawn by	MU	Figure No.	1





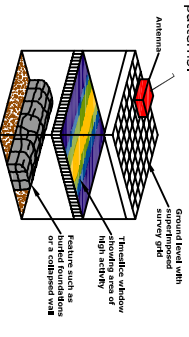
## Amendments

Issue No.	Date	Description
-	-	-
-	-	-

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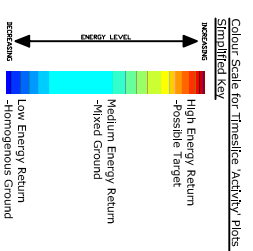
### TIMESLICE PLOTS

In addition to a manual abstraction from the radargrams, a computer analysis was also carried out. The radar data is interrogated for areas of high activity and the results presented in a plan format known as timeslice plots. In this way it is easy to see if the high activity areas form recognisable patterns.



The GPR data is compiled to create a 3D file. This 3D file can be manipulated to view the data from any angle and at any depth within range. The data was then modelled to produce activity plots at various depths. As the radar is actually measuring the time for each of the reflections found, these are called 'time slice windows'. Plots for various time slices have been included in the report. Based on an average velocity calculations have been made to show the equivalent depth into the ground. The data was sampled between different time intervals effectively producing plans at different depths into the ground. The weaker reflections in the time slice windows are shown as dark colours namely blues and greens. The stronger reflections are represented by brighter colours such as light green, yellow, orange, red and white.

Reflections within the radar image are generated by a change in velocity of the radar from one medium to another. It is not unreasonable to assume that the higher activity anomalies are related to marked changes in materials within the ground such as buried foundations or surfaces within the soil matrix.



**Client**  
BENJAMIN + BEAUCHAMP  
ARCHITECTS LTD.

**Project Title** Job No. J7123  
ST MICHAEL'S WITHOUT, BATH

**Subject**

GPR SURVEY - TIMESLICES

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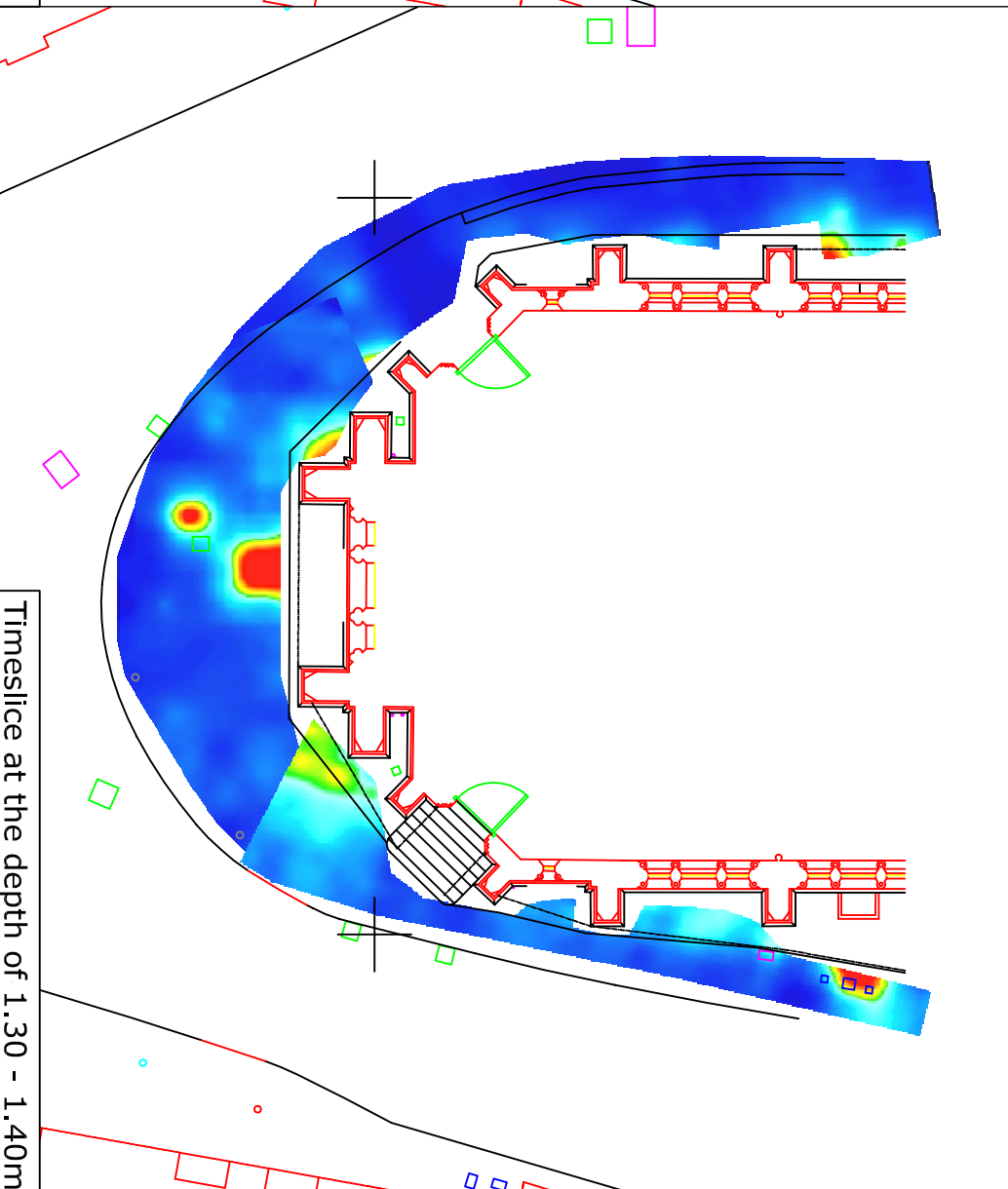
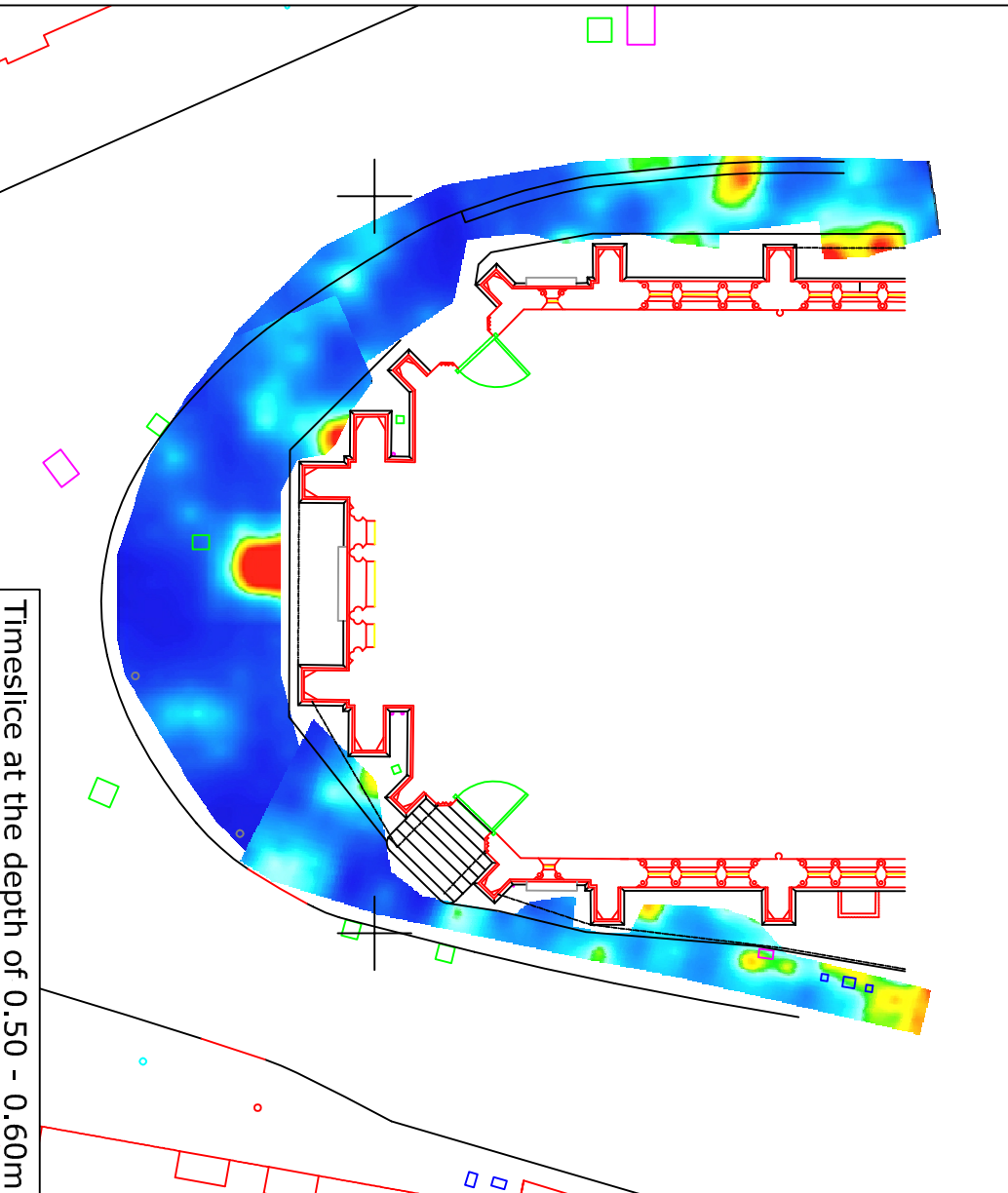
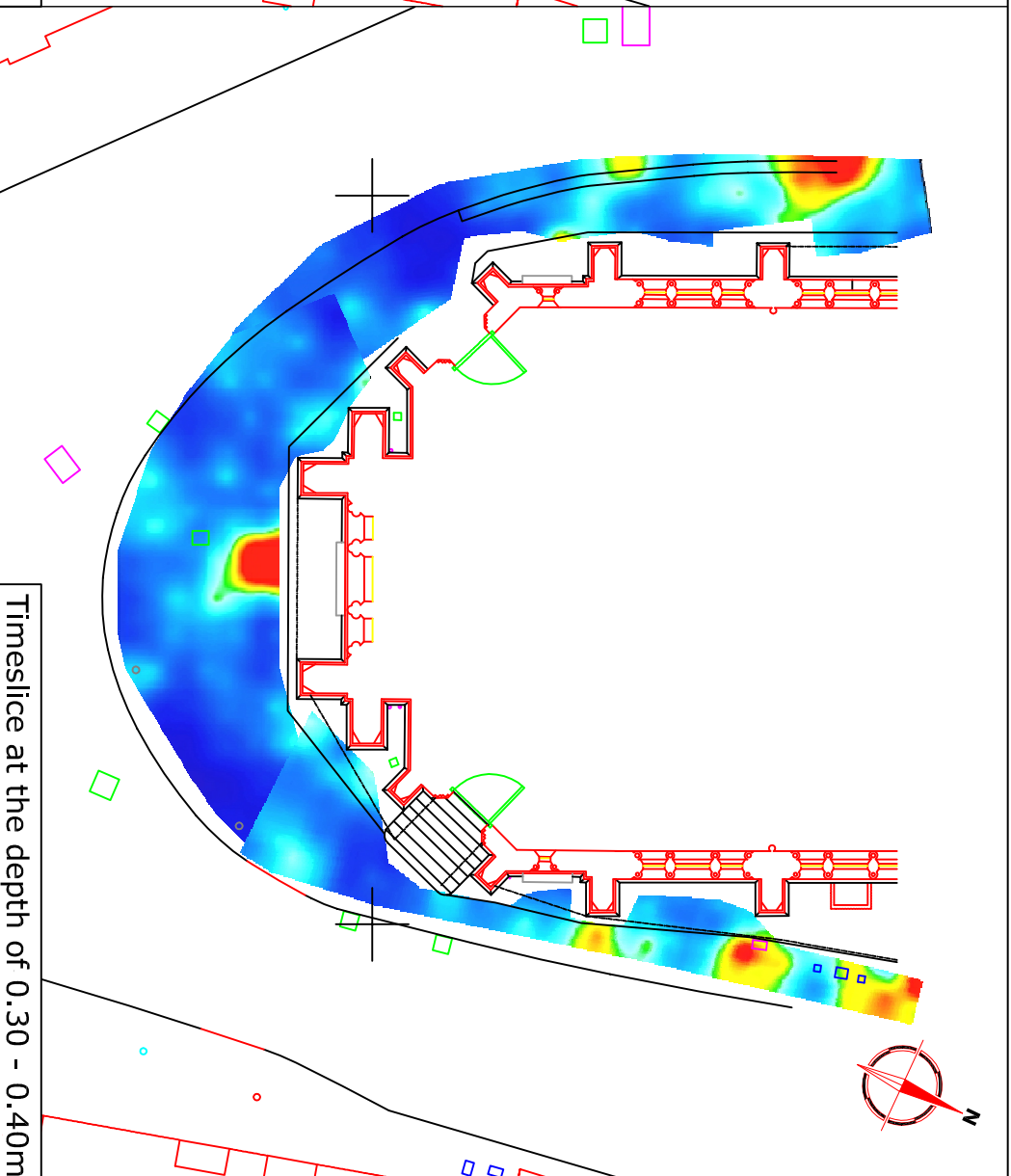
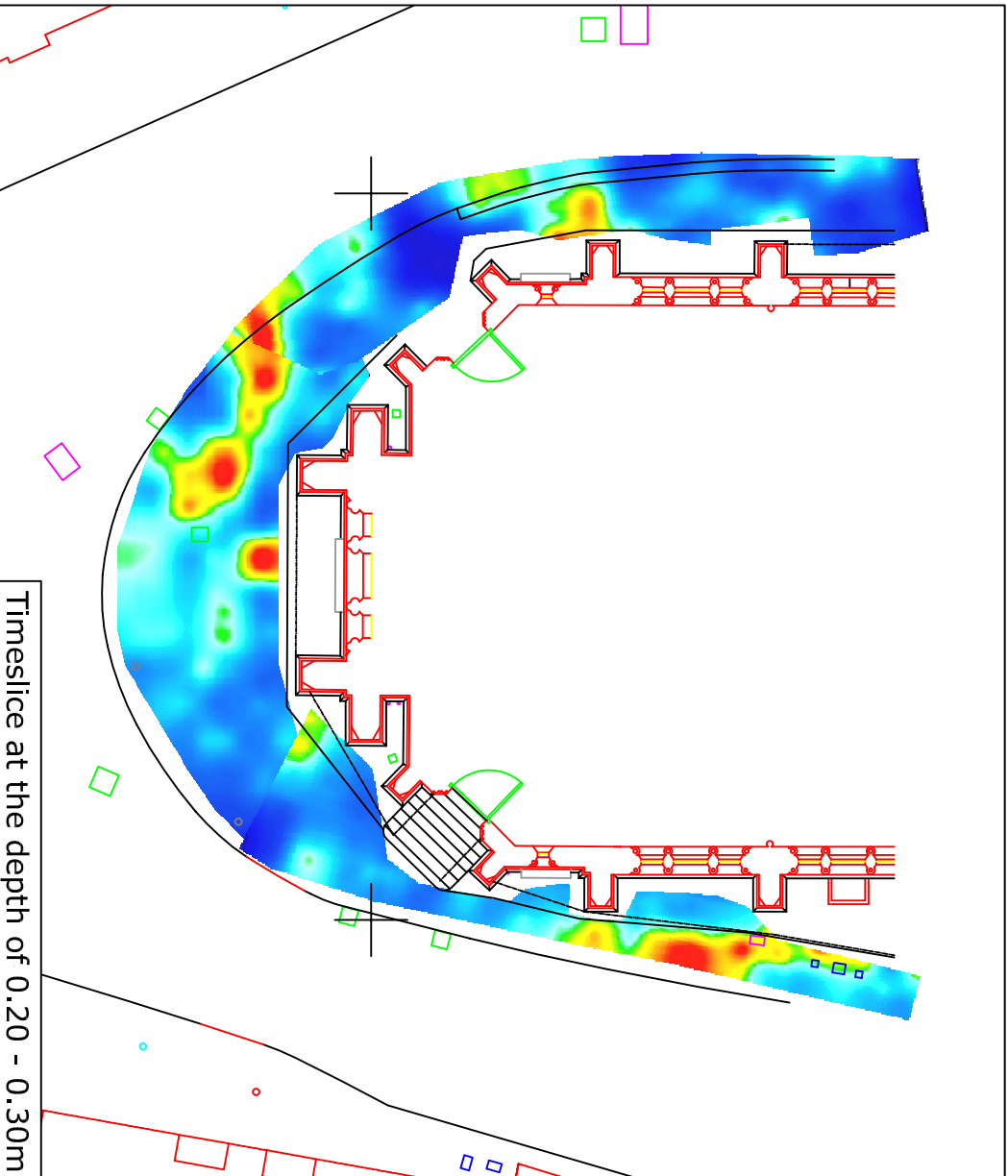
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**EUROPEAN  
GPR  
ASSOCIATION**



**Scale**  
1:200

**Plot** A3  
**Checked by** DGE  
**Issue No.** 01  
**Survey date** JULY 14  
**Drawn by** MU  
**Figure No.** 3





### Amendments

Issue No.	Date	Description
-	-	-
-	-	-

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The survey around St. Michael's Church In Bath was conducted to determine the location of vaults.

The survey used Ground Penetrating Radar GSSI Dual Frequency equipment with 300MHz and 800MHz antennas, giving a depth of penetration of approximately 3.00m and 1.10m respectively.

The survey did not identify any anomalies indicative of vaults. Features related to the probable foundations were found, as well as probable and possible obstructions, known services and an additional service.

The depth of the features is indicated on the map.

### KEY

	Features related to the foundations of the church
	Probable obstruction
	Possible obstruction
	Possible service
	Manhole
	Survey area
	Depth to the feature (in metres)

Client  
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Project Title Job No. J7123  
**ST MICHAEL'S WITHOUT, BATH**

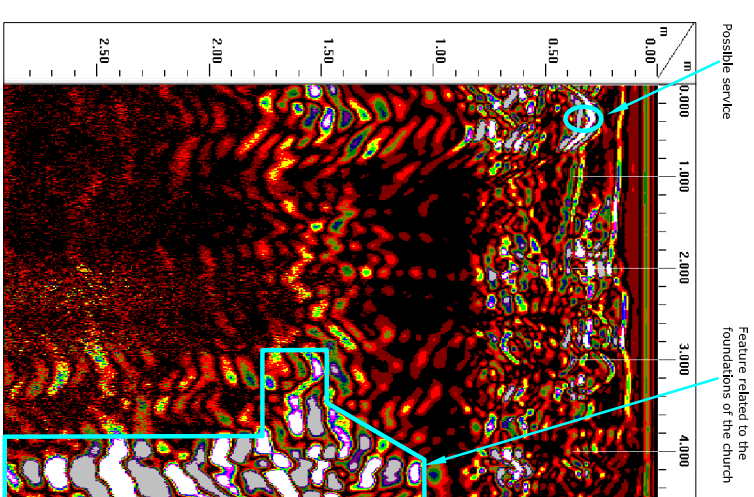
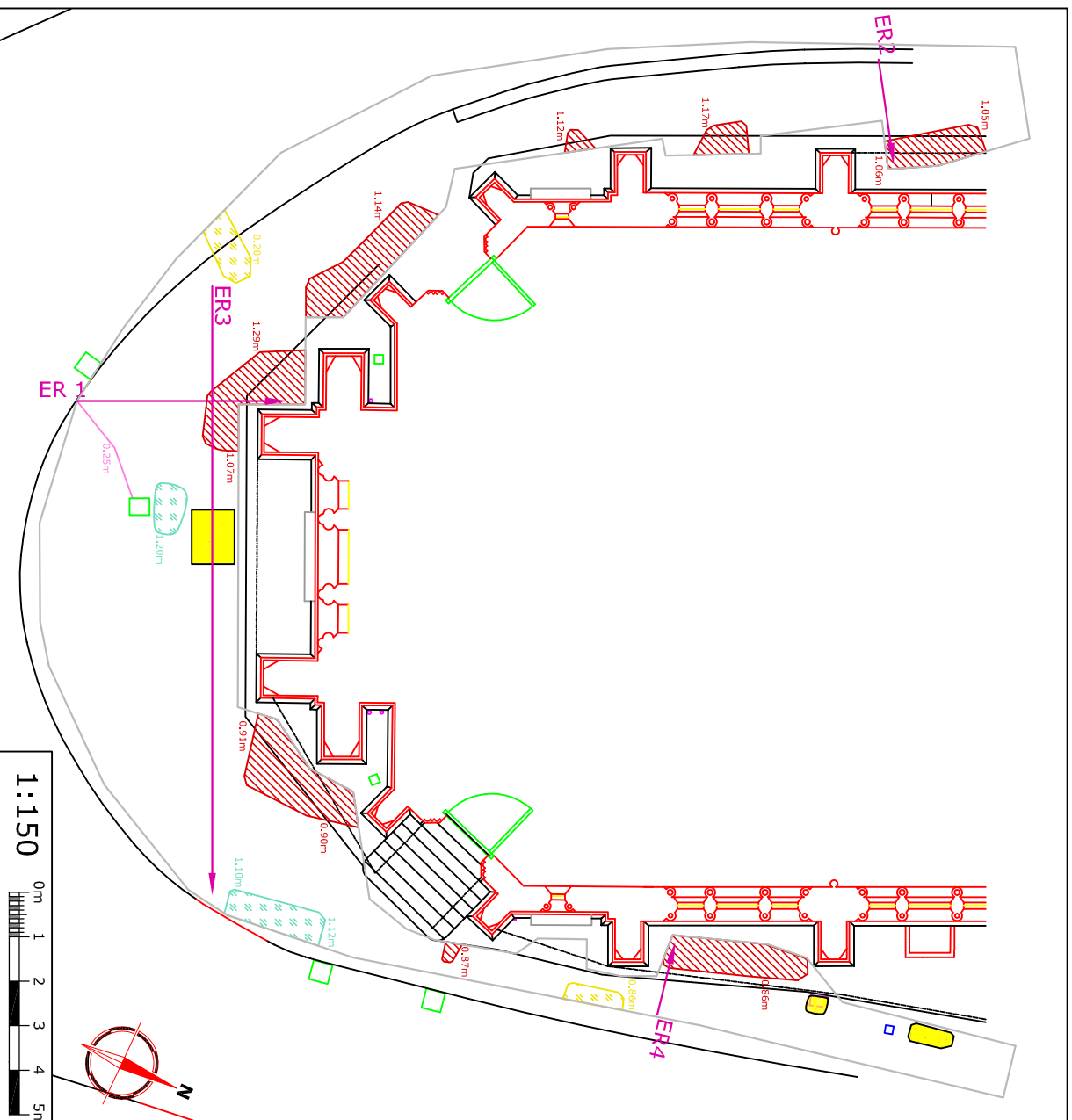
Subject  
**GPR SURVEY - INTERPRETATION**  
**WITH EXAMPLE RADARGRAMS**

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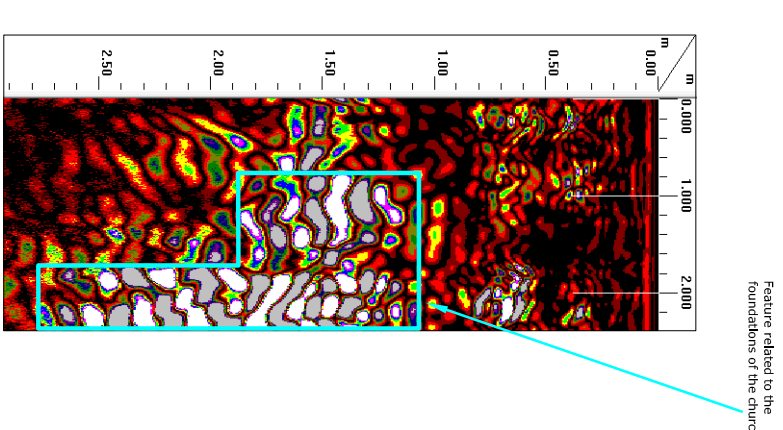
**EUROPEAN GPR ASSOCIATION**  
**SUMO** SUMO GROUP MEMBER  
ISO 9001 certified  
ISO 14001 certified  
UKAS  
UKAS

Scale  
**AS SHOWN**

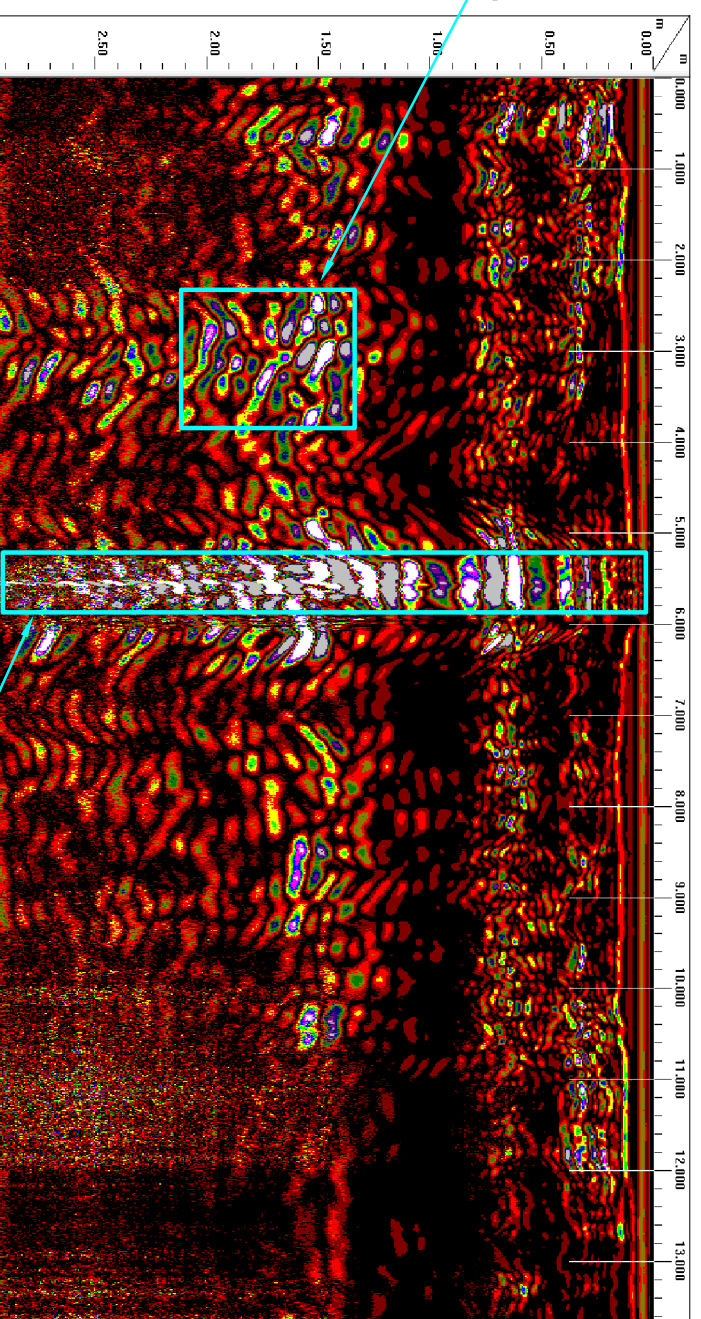
Plot	A3	Checked by	DGE	Issue No.	01
Survey date	JULY 14	Drawn by	MU	Figure No.	4



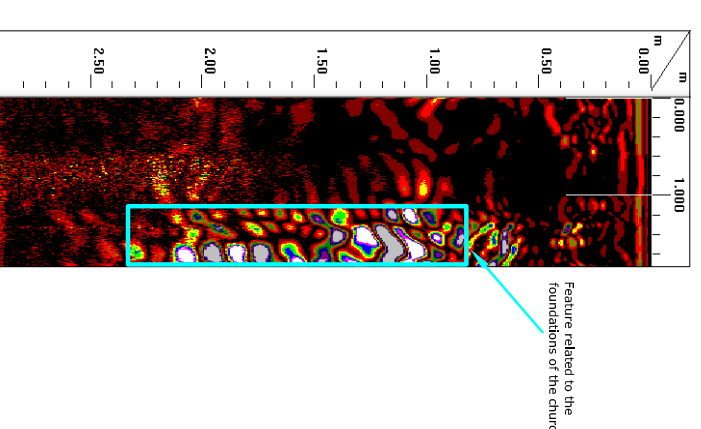
Example Radargram 1.  
Possible service and feature related to the foundations of the church.



Example Radargram 2.  
Feature related to the foundations of the church.



Example Radargram 3.  
Feature related to the foundations of the church and manhole.



Example Radargram 4.  
Feature related to the foundations of the church.