Prostorska in krajinska arheologija-Vaje 4

Domača naloga <u>https://ge.tt/7IRIIRQ/v/0?c</u>

Archaeological resource modelling in temperate river valleys: a case study from the Trent Valley, UK

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Methods for mapping and determining the condition of archaeological resources while they are still underground have been in development for nearly half a century. The authors here offer an example from the frontiers of the art: the application of a package of remote sensing procedures not only designed to locate sites but to model the valley deposits which contain and cover them. The variation in success of different methods in different deposits offers a guide to the design of evaluation projects on sand and gravel terrain everywhere.

Keywords: Britain, Trent, prehistory, alluvial, floodplain, confluence, lidar, ERGI, geophysics, prospection, bore holes, radiocarbon

Introduction

Archaeological remains within river valleys are often exceptionally well preserved through a combination of the presence of high water tables, stable terrace surfaces and substantial depths of alluvium (Brown 1997; Howard *et al.* 2003). However, recent archaeological research focused on British river valleys has shown that both cultural and taphonomic factors influence the wealth and spatial distribution of the archaeological resource across floodplains and terrace surfaces. A number of authors have demonstrated a direct link between the distribution and preservation potential of archaeology and the observed geomorphology (Howard & Macklin 1999; Passmore *et al.* 2006). Such patterns of preservation are not unique to the UK and have been observed in Europe (Howard *et al.* 2004), Africa (Pearl & Dickson 2004) and North America (Bettis & Mandel 2002; Bauer *et al.* 2004). Published studies are not just restricted to empirical observations; recent analytical work within meandering river systems has sought to predict the spatial distribution of archaeology

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Podatki:

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Quantum GIS

http://www.qgis.org/





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Thematic layers

Geographical information system (GIS) works by creating a series of georeferenced overlays.





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http://www.epsg-registry.org/ http://spatialreference.org/

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Developed by: Galdos Systems Inc. Version: 2.0.5



Sloj:



Vectors



Locational component

Topological component

Attribute component

Metadata component

Locational component





Attribute component

id,type,date,name

1, archaeological site, Roman, Ammaia



Metadata



Projection Source Legend Errors Copyright

ESRI shapefile format

- .shp shape format; the feature geometry itself
- .shx shape index format; a positional index of the feature geometry to allow seeking forwards and backwards quickly
- .dbf attribute format; columnar attributes for each shape, in dBase IV format

Optional files :

- .prj projection format; the coordinate system and projection information, a plain text file describing the projection using well-known text format
- .sbn and .sbx a spatial index of the features
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- .atx an attribute index for the .dbf file in the form of shapefile.columnname.atx (ArcGIS 8 and later)
- .shp.xml geospatial metadata in XML format, such as ISO 19115 or other schemas
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Metapodatki

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	Restore Default Style Save As Default Load Style Save Style	
ayer	OK Cancel Apply Help	9



Rasters

Pixel

1	1	1	1	1	1	1	3	3	3
1	1	1	1	1	1	1	3	3	3
1	1	1	1	1	1	З	3	3	3
1	1	1	2	2	2	2	3	3	3
1	1	1	2	2	2	2	3	3	3
1	1	1	2	2	2	2	3	3	3
1	1	1	1	2	2	2	3	3	3
1	1	1	1	1	1	3	3	3	3
1	1	1	1	1	1	1	3	3	3
1	1	1	1	1	1	1	1	3	3



Raster data formats

GeoTIFF, TIFF + world file



World file 10000 0 0 -10000 -3683154.58 4212096.53

ESRI grid format



	25	75	125	175
275	NA	NA	5	2
225	NA	20	100	36
175	3	8	35	10
125	32	42	50	6
75	88	75	27	9
25	13	5	1	NA

ncols	4
nrows	6
xllcorner	0.0
yllcorner	0.0
cellsize	50.0
NODATA_value	-9999
-9999 -9999 5	2
-9999 20 100 3	36
3 8 35 10	
32 42 50 6	
88 75 27 9	
13 5 1 -9999	

Title	
Abstract	
Driver:	
GDAL provider	
GTiff GeoTIFF	
Dataset Description	
G:\vajeGIS\ttn5\G21\H\G212006.tif	
TIFFTAG_ARTIST=Copyright (C) RGU. IGEA, 1994.	
TIFFTAG_DATETIME=1994:12:16 14:07:01	
TIFFTAG_IMAGEDESCRIPTION=G212006	
TIFFTAG_MAXSAMPLEVALUE=1	
Band 1	
Dimensions:	
X: 5316 Y: 7088 Bands: 1	
520250,67000.2	

