## East Anglia Fenlands through Time May 2010 Metadata

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Darby (1969, 1974) describes the economic geography of East Anglia from the 1087 Domesday census, and the 1327-34 and the 1640-1641 Subsidy tax assessments. The switch of wealth from the Uplands in the north and south, to the Lowlands in the centre, is illustrated through 55 map figures. Some are re-created here as thematic maps, using Ordnance Survey OpenData released this month under *a creative commons attribution licence*, with no restriction to re-use derived data.

<u>Source</u>	<u>Name</u>	<u>Description</u>	Comment
O.S. Opendata		Shape files	same as April 2010
Boundary-Line	county_region	Counties	(S.Yorks. missing)
	district_borough_unitary_region	Boroughs	OSGB 36 British
	district_borough_unitary_ward_region	Wards	National Grid,
	high_water_polyline	Coast high-tide mark	EPSG:27700
	parish_region	Parishes	projection
Strategi Shape	a_road_polyline	UK 'A' roads	WGS 84,
(GB_North,	b_road_polyline	UK 'B' roads	EPSG:4326
GB_South)	coast_polyline	Coastline	Projection)
	foreshor_region	Coast tidal region	
	lakes_region	Lakes	
	land_use_polyline	Roman roads, dykes	
	motorway_polyline	UK motorways	
	nat_park_polyline	National Parks	
	railway_polyline	Railways	
	rivers_polyline	Rivers	
	settlmnt_point	Cities, towns, villages	
	urban_region	Cities, towns, villages	
	woodland_region	Woodlands	

The following data make a vector map context. They were clipped to the four counties, except for the southernmost Yorskshire parishes, where county data was missing from OS Opendata.

<u>Source</u>	<u>Name</u>	<u>Origin</u>	<u>Comment</u>
Derived	EastAngliaARoads	A roads	clipped on
	EastAngliaBoroughs	Boroughs	Suffolk,
	EastAngliaBRoads	B roads	Norfolk,
	EastAnglia Cities	Cities	Cambs.
	EastAngliaCoast N / S	Coastline	and Lincs.
	EastAngliaHighwater	<b>Coastline</b>	counties,
	East Anglia Counties	Counties	and S. Yorks.
	East Anglia Foreshore	Foreshore	parishes
	EastAngliaLakes	Lakes	

EastAngliaMotorway Motorways National Parks  ${\sf EastAngliaNationPark}$ **EastAngliaParishes Parishes** Railways EastAngliaRailways EastAngliaRivers Rivers EastAngliaRoman\_Dyke Land use EastAngliaSettlements Settlements EastAngliaUrban Urban EastAngliaWards Wards Woodlands EastAngliaWoodlands

From this were derived the following data. Parishes are the common areal unit in history publications. And Darby uses these two attributes as a measure of economic wealth: ploughteams in the Domesday data, and tax assessment in the Subsidy data. Two attributes were added to the Parishes, PloughTeam (number per 1000 acres) and Subsidy (assessment per 1000 acres).

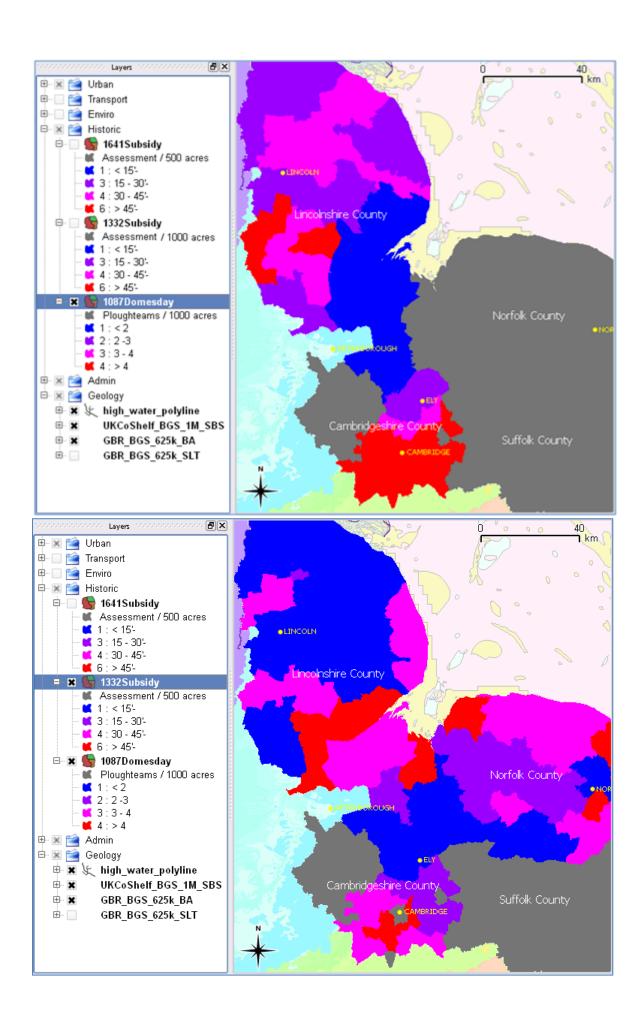
<u>Source</u>	<u>Name</u>	<u>Origin</u>	New attribute
Augmented	1086Domesday	East Anglia parishes	PloughTeam
(from Darby	1332Subsidy	East Anglia parishes	Subsidy
1969: figs. 5,	DrainSubsidy (1641)	East Anglia parishes	<mark>Subsidy</mark>
19 and 20,	MergeDomesday	incl. S. Yorks. Parishes	PloughTeam
and 1974:	MergeSubsidy	incl. S. Yorks. Parishes	<mark>Subsidy</mark>
figs. 4, 5,	SYorkDomesday	for missing county	PloughTeam
18, 20, 21,	SYorkSubsidy	for missing county	Subsidy
23 and 25)	CambsGeol (1794, 1813 land cover)	East Anglia parishes	<mark>SurfGeol</mark>
	CambsSurfGeolMap (1877)	geoTIFF	

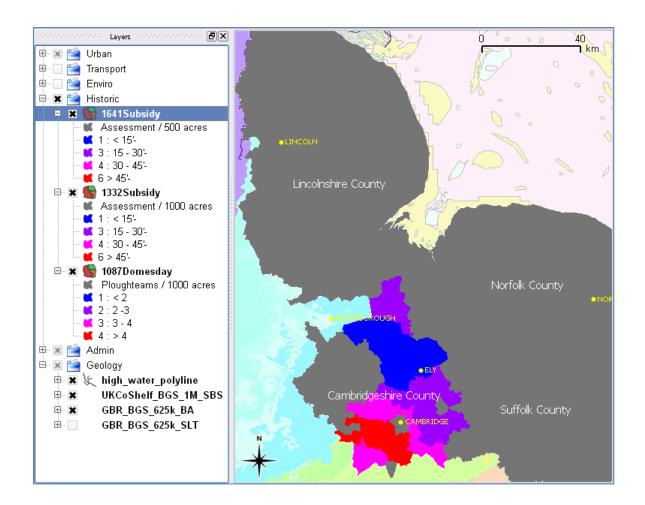
NGDC and BGS WMS data were added for a low res coastline, and surficial and bedrock geology onshore and offshore. Highlighted data are posted on GIS Cloud web service, see <a href="blog.zolnai.ca">blog.zolnai.ca</a>.

<u>Source</u>	<u>Name</u>	<u>Description</u>	<u>Comment</u>
NGDC	GSHHS Coastline	1:1M coastline vectors	<mark>download</mark>
BGS WMS	UKCoShelf_BGS_1M_SBS	Offshore 1:1M surficial raster	WMS 1.1
	GBR BGS 625k BA	Onshore 1:625K bedrock raster	<b>WMS 1.1</b>

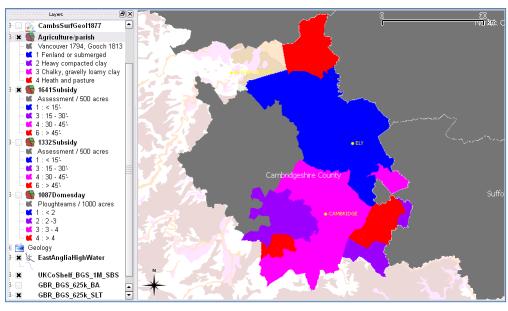
Result images and legend notes are on the next pages. Here are the references. Data files, figures and metadata spreadsheet are available upon request, and this will be served up on the internet.

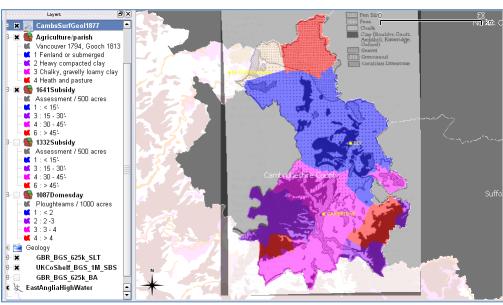
http://bit.ly/9Y9g6Z	The Medieval Fenland	Henry Clifford Darby	1974
http://bit.ly/9lUBwt	The Draining of the Fens	Henry Clifford Darby	1969
http://bit.ly/5jsnkC http://bit.ly/9krdUU	Global Self-consistent, Hierarchical, High- resolution Shoreline Database OpenData	National Geophysical Data Center (UK) Ordnance Survey	1996 2010
http://bit.ly/cNr3Ci	Web Mapping Services	British Geological Survey	2010

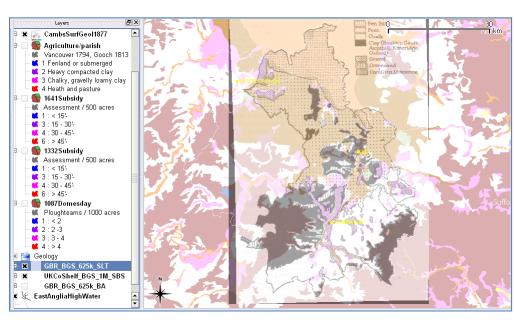




Legend notes 1327 1332 Subsidy year 1641 assessmt. "20th" "15th" /1000 acre criteria 1/20 1/15 /500 acre Darby 15 20 30 15 30 60 30 classificn. 40 45 values 45 60 90 original 15 20 derived 23 30 used 38 50 Domesday Bowring SurfGeol Classification Subsidy R G В (last page) 0 155 155 = 0 0 155 0 0 255 0 - 10 1 1 3 2 0 255 10 - 25 155 3 0 25 - 50 4 255 255 6 4 255 0 0 > 50







From: Julie Bowring <u>julie.bowring@gmail.com</u>
To: Andrew Zolnai <u>aizolnai@googlemail.com</u>

Date: Fri, May 7, 2010 at 8:09 PM

Subject: Re: GIS of Fenland

[...]

What I've done so far with GIS is to map the rough population figures I have worked out; I've attached the shape-files to this email -- both are maps of population density by families/households per 1000 acres. I think that the projection may be the same as yours -- I got the original shapefiles from the GIS of Kain & Oliver's Ancient Parishes (<a href="http://www.data-archive.ac.uk/findingData/snDescription.asp?sn=4828">http://www.data-archive.ac.uk/findingData/snDescription.asp?sn=4828</a>) through the Arts and Humanities Data Service, and ArcGIS idenitifies the projection as GB1936. I'm happy for you to add them to your layers; I just ask that you identify me as the origin of the 1674 data, which I compiled from two transcripts of the original tax: the Huntingdonshire Hearth Tax Assessments for 1674, transcribed by Lawrie Chorley and Mo Eeles, indexed by Laurie Chorley, and typed by Nancy Travers and Mavis Russell (1992), and that of the Cambridgeshire Hearth Tax Assessments for 1674, transcribed and indexed by Norman and Vicky Uffindell (1987); both are deposited in the Cambridh Record Office. The 1563 data is from a published census - Dyer, Alan and D.M. Palliser, editors. The Diocesan Population Returns for 1563 and 1603. Oxford: Oxford University Press, 2005. Records of Social and Economic History New Series 3 - and Southall, H.R. and Burton, N., GIS of the Ancient Parishes of England and Wales, 1500-1850 [computer file]. Colchester, Essex: UK Data Archive [distributor],

[...]

March 2004. SN: 4828.