Fjordr

Marine and Historic Environment Consulting

Title	Floodplain Meadows Project: Mapping the Historic		
	Floodplain Meadows along the Rivers Severn and		
	Avon – Quick Guide		
Fjordr Ref / Version			
External Ref(s)			
Authors	Antony Firth and Emma Firth		
Derivation			
Origination Date	14/03/23		
Date of Last Revision	02/02/24		
Summary of Changes			
Status / Required	Accompanying dataset		
Action			
Circulation	Organisations in receipt of FPM shapefile		
File Name / Location	Quick Guide to the GIS.docx		



Marine and Historic Environment Consulting

Floodplain Meadows Project: Mapping the Historic Floodplain Meadows along the Rivers Severn and Avon

Fjordr 16653

FPM Data - Quick Guide

This Quick Guide accompanies a shapefile – *Severn and Avon Historic Floodplain Meadows.shp* – that is one of the principal outputs of the project Mapping the Historic Floodplain Meadows along the Rivers Severn and Avon, prepared by Fjordr Ltd. for the Floodplain Meadows Partnership.

The methodology is based on that developed by Fjordr Ltd. for the Historic Extent of Floodplain Meadows: Dorset Stour and Thames Tributaries, set out in the following report:

Firth, E. and Firth, A., March 2022, Historic Extent of Floodplain Meadows: Dorset Stour and Thames Tributaries. Unpublished report by Fjordr Ltd. for the Floodplain Meadows Partnership.

The report is available online here:

https://www.floodplainmeadows.org.uk/sites/www.floodplainmeadows.org.uk/files/Historic%20Extent%20of%20Floodplain%20Meadows%20-%20Stour%20and%20Thames%20-%20Fjordr%201303022%20Final.pdf

The shapefile comprises a single layer of Floodplain Meadow Polygons (FMPs) as spatial information with attributes.

The shapefile covers a study area comprising part of the catchment of the River Severn and River Avon. The selected stretches include:

the main channel of the Severn from Gloucester to Worcester

the main channel of the Avon from Tewkesbury to Cleeve Prior

The study did not include minor tributaries.

For the purposes of collating data, the study area was defined by a 1km buffer on the stretches listed above as mapped on the OS Open Rivers product.

FMPs have been created based on the interpretation of multiple sources relating to the historic environment, including the following:

- Historic Ordnance Survey maps available in the project GIS via a WMS link to Edina Digimap provided by the Floodplain Meadows Partnership under the Open University's licence. Generally, Epoch 1 – the earliest editions typically dating to around 1880.
- British Library Ordnance Survey Drawings made between 1780s and 1840 in preparation for the first edition of one-inch OS. Available from http://britishlibrary.georeferencer.com/start.
- Tithe maps can be searched on the National Archives which in turn provides a link to
 The Genealogist https://www.thegenealogist.co.uk/tithe/ where the tithe map and its
 apportionment records can be viewed for a subscription. Local records offices also
 hold copies of the tithe maps.
- Other historic maps available online, for example 1780 City of Gloucester (limited coverage) available at Know your Place: https://maps.bristol.gov.uk/kyp/?edition=glos and Hanley Castle Enclosure Map 1797 available at https://gis.worcestershire.gov.uk/website/HanleyCastleMapping/.
- Google Satellite imagery.

Various non-map sources have also been used, for example 1016-1035 boundary clause translated by Della Hooke in Worcester Anglo-Saxon Charter Bounds, P.387 cited at http://www.harvington-history.org.uk/pre1066.htm#%C3%9Eennecumbe.

The form of the record is intentionally simple, comprising a single layer in a flat-file format, so that it can be readily included within third-party workspaces/GIS projects.

The mapping of individual polygons is directly from georeferenced historic sources. In some cases, there may be inaccuracies mapping from these early sources, due to the methods used at the time of the survey not being as accurate as in later maps. Where field boundaries on earlier maps are recognisable on later maps, corrections can be made accordingly.

The following attributes are recorded for each FPM in the shape file attribute table:

ID_HistFPM Identifying number for each FPM.

FPM_name Defined by the area where the FPM is located, limited to 254

characters or specific name if one recorded on a source.

County County FPM is within.

Parish Parish FPM is within.

River River FPM is located on.

ModLanduse Modern land use as seen on the most recent satellite imagery.

FPMNotes Description of the FMP – limited to 254 characters so necessarily

concise.

Lammas Reference to Lammas in sources. Yes/No field

Funnel Does FPM have a characteristic funnel shaped entrance Yes/No field

Doles Reference to doles, either in descriptions or visible on map sources

such as tithe maps. Yes/no field

Drove Drove or lanes which connects a settlement to a meadow, often via a

funnel shaped entrance to the meadow. Yes/No field

Common Reference to Common in sources. Yes/No field

Drainage Reference to drainage in sources. Yes/No field

Placenames Reference to specific placenames associated with floodplain

meadows in sources. List of placenames such as ham, mead,

common, lots, allotments, and doles.

Domesday Whether there a domesday settlement with recorded acreage

associated with the settlement in this parish. Obtained from Open

Domesday¹. Acreage recorded.

Tithe_Ref Tithe map reference.

OS_Map_Ref Historic OS Map reference.

OSSurvey_Ref Historic OS Survey Drawing reference.

OtherMap Any other historic map sources, such as estate maps, which reference

the FPM.

Rep_link Report or other reference material where the FPM is identified and if

available, the link to the report or reference material.

Confidence Confidence level in the identification of the FPM, with 1 being low and

5 being high. Confidence reflects the amount of information available

about the FPM.

A high confidence is assigned to an FPM when there are multiple sources and a high number of criteria about the meadow can be recorded. For example, a meadow that appears on several maps, has a funnel shaped entrance, doles mapped on the tithe map and named

as a common in the tithe apportionment records.

A low confidence meadow might be an FPM where only the

boundaries within the floodplain indicate the presence of a meadow

but there is no other evidence available.

Compliedby Who created the record.

Compiledate Date record created.

¹ https://opendomesday.org/

Summary

A total of 81 FPMs were identified from the sources and recorded in the *Severn and Avon Historic Floodplain Meadow.shp*. Figure 1 shows how the meadows appear on each of the different sources for the FPM at Lower Hams/Lords Meadow at Kempsey, on the River Severn. In the area of Gloucester and Tewkesbury, several FPMs were named on the OS 25" Epoch 1 maps and were also present on the earlier OS Survey Drawings. Some FPMs also had areas of stones mapped on the OS 25" Epoch 1 maps which corresponded to the doles mapped on the tithe maps (Figure 2).

The large number of meadows identified along these two rivers may be attributed to the nature of the rivers, both of which were important transport routes historically. FPMs at Worcester, Gloucestershire and Tewkesbury are known to date back to the medieval period and other meadows were identified near known medieval sites. Meadows were also found with field boundaries that appear to respect the remains of medieval field systems (Figure 3). Hooke² translated a boundary clause which has provided a fascinating insight into the FPM at Hynham Meadows, Harvington on the River Avon. The translated boundary clause provides an interesting use of language which could be linked to a tithe plot which had the name "Hynham Meadow" pencilled onto the 19th century tithe map. The 11th century boundary clause lists "hunig hommes streote" which Hooke translates to Hunighamm/meadow where there is honey. The "steort" relates to the term stert/sturt, or tongue of land and was also observed at meadows recorded in Dorset³ where Sturt Mead was recorded at Sturminster Newton. A later 14th century perambulation records this FPM at Hunyhamsterte. Documentary evidence dating back to the 18th century was available for meadows at Bushey, where the Dowdeswell Map of 17924 records common meadow.

Summary of criteria recorded:

https://www.floodplainmeadows.org.uk/sites/www.floodplainmeadows.org.uk/files/Historic%20Extent%20of%20Floodplain%20Meadows%20-%20Stour%20and%20Thames%20-%20Fjordr%201303022%20Final.pdf

² 1016-1035 boundary clause translated by Della Hooke in Worcester Anglo-Saxon Charter Bounds, P.387 cited at http://www.harvington-history.org.uk/pre1066.htm#%C3%9Eennecumbe

⁴ Dowdeswell Map of 1792 http://www.bushleyparisharchive.co.uk/authenticated/Browse.aspx?BrowseID=149&tableName=ta_documents

Criteria	Yes	No	Other
Lammas	7	74	
Common	24	51	Possible – 6
Funnel	29	47	Remnant 1 Possible funnel 4
Doles	21	56	Possible 3 Remnants 1
Droves	32	43	Ford to meadow 2 Possible 4
Drainage	50	29	Possible 2

Summary of placenames

Placename	Number of FPMs
common	1
common, ham	1
ham	30
ham,	1
ham, common	3
hays	1
lease, ham	1
mead	1
mead, ham	1
no	7
none	33
stert, ham,	1
Grand Total	81

Please contact Fjordr at info@fjordr.com with questions or feedback.

Antony Firth and Emma Firth Fjordr Ltd

Appendix 1

List of Figures

Figure 1 Comparison of difference sources, Lower Hams/Lords Meadow at Kempsey on th	е
River Severn.	9
Figure 2 Doles and Stones shown on tithe maps and OS Six Inch maps at Upham and Twyning meadow on the River Avon.	10
Figure 3 Lidar showing medieval field systems adjacent to the FPM at Upham and Twyning Meadow on the River Avon	-

Lower Ham/Lords Meadow at Kempsey

Lower Ham marked on OS 25" Epoch 1 and tithe map shows the lower half has an area of doles marked as Lords Meadow. Recorded in tithe records as "common meadow". There is a drove/lane from Kempsey, that joins the slight funnel shaped entrance to the meadow. The drove continues across the meadow to Pixham Ferry., which is shown on both the earliest and latest maps.

The Bishops Palace, a former medieval site, is situated directly to the north of the meadow.



OS Survey Drawing 1812 Great Malvern

National Archives IR 30/39/74 Tithe map of Kempsey (parish), Worcestershire 1840

OS 25" Epoch 1 map

Due to mapping inaccuracies when the original map was created, the Dark green area shows location of former doles. map does not georeference exactly to the modern loccation hence there is not always perfect alignment of landscape features.

Figure 1 Comparison of difference sources, Lower Hams/Lords Meadow at Kempsey on the River Severn.

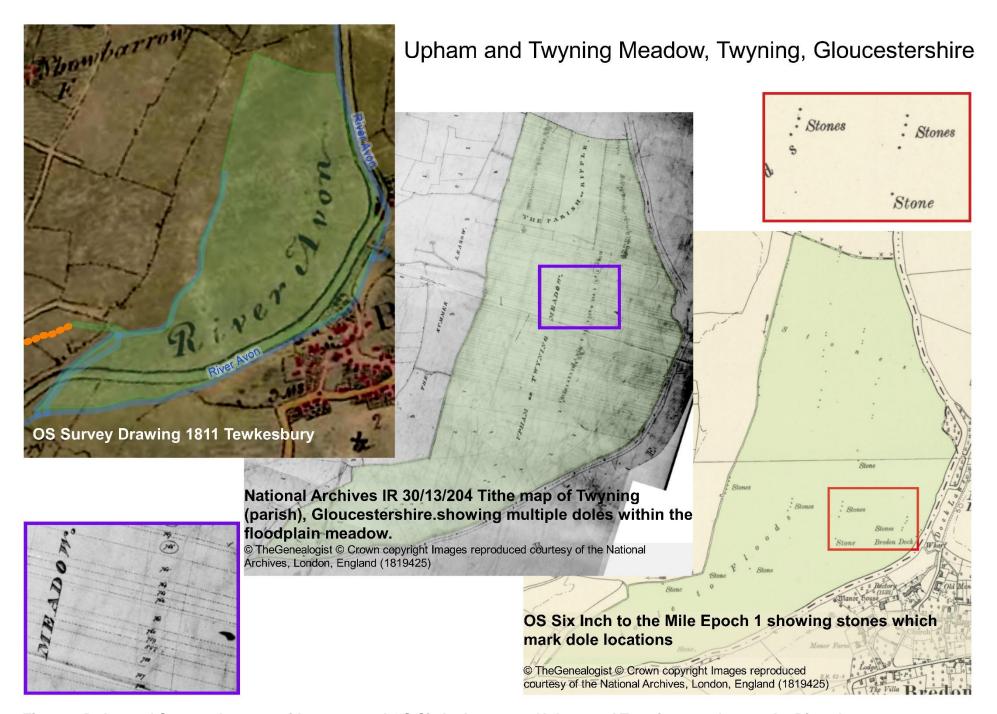
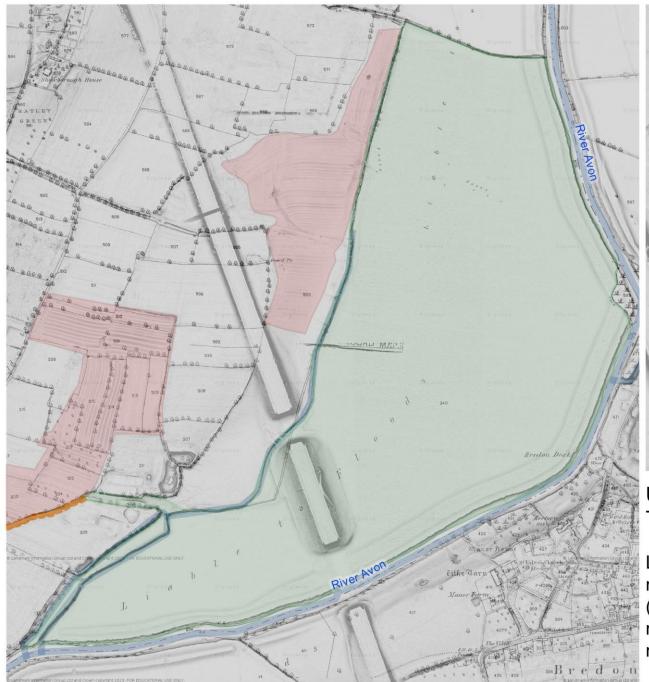


Figure 2 Doles and Stones shown on tithe maps and OS Six Inch maps at Upham and Twyning meadow on the River Avon.





Upham and Twyning Meadow, Twyning, Gloucestershire

Lidar shows areas where medieval ridge and furrow remains are visible (area coloured red). These areas respect the edge of the floodplain meadow.

Figure 3 Lidar showing medieval field systems adjacent to the FPM at Upham and Twyning Meadow on the River Avon