

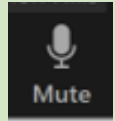
# The Moors at Arne



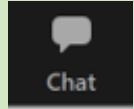
**Stakeholder Liaison Group Meeting: 24<sup>th</sup> February 2021**

# Welcome!


## Zoom Housekeeping.



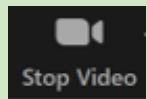
- Please mute your microphone to avoid background noise



- During the presentation if you would like to ask a question please write it in the chat box

- At the end of the meeting if you would like to ask a question in the open forum, please raise your hand and we will unmute you individually so you can speak. (In  3 dots at the bottom of the panel and raise hand.)

- There are 3 view options: full screen, speaker or gallery view you can opt to choose during the meeting. (This may be altered as the presentation is being shared but can manually be altered by each participant)



- It can be helpful to turn off your video as the presentation is shown to minimise any interruption with the internet

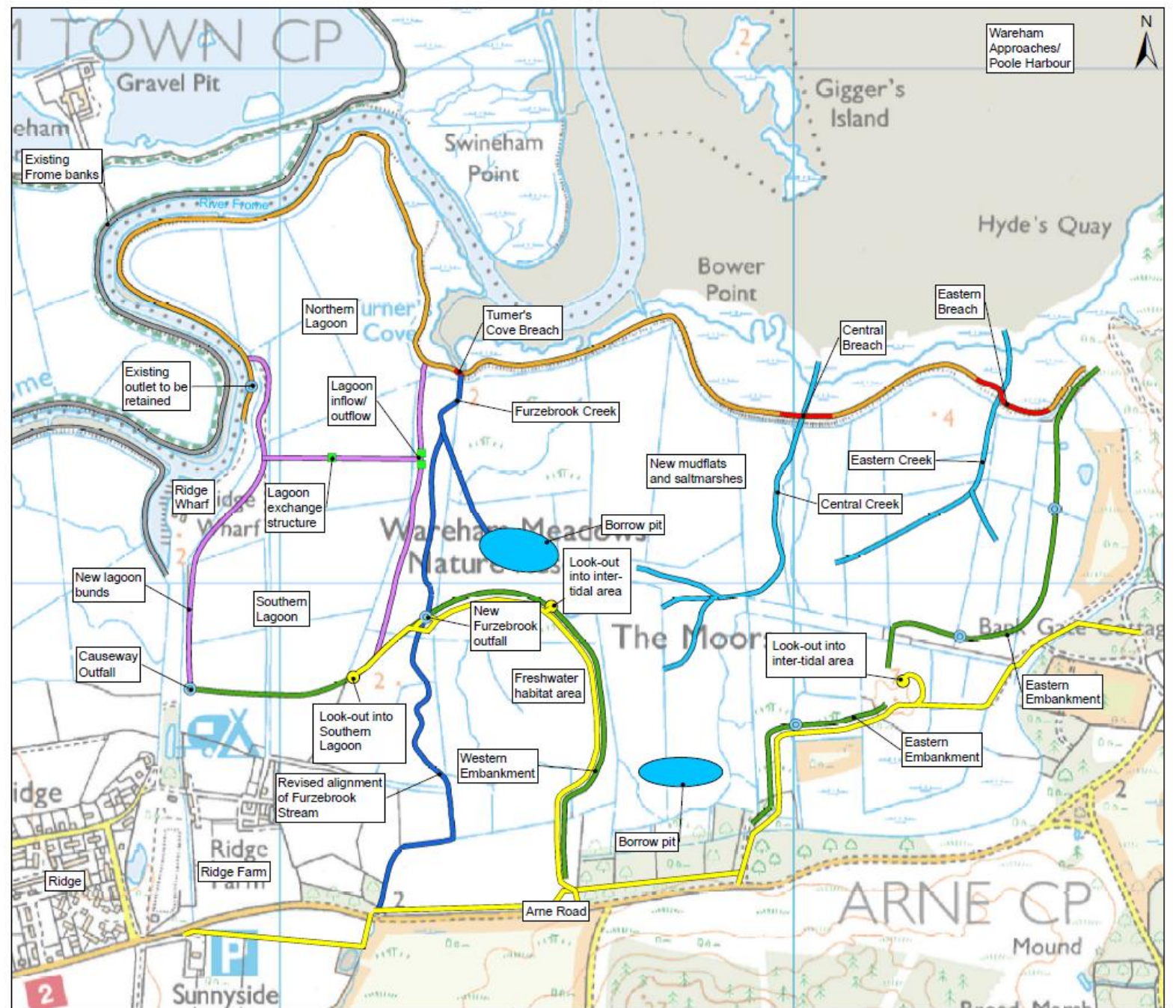


# Stakeholder Liaison Group Agenda

1	Introductions	5 mins
2	Review of notes from last meeting	5 mins
3	Brief project update	10 mins
4	Archaeological Presentation	30 mins
5	Open Forum	25 mins
6	Next steps and date of next meeting	5 mins



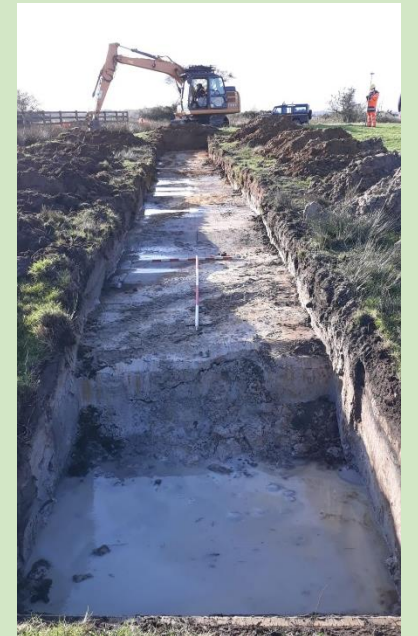
# Project Update



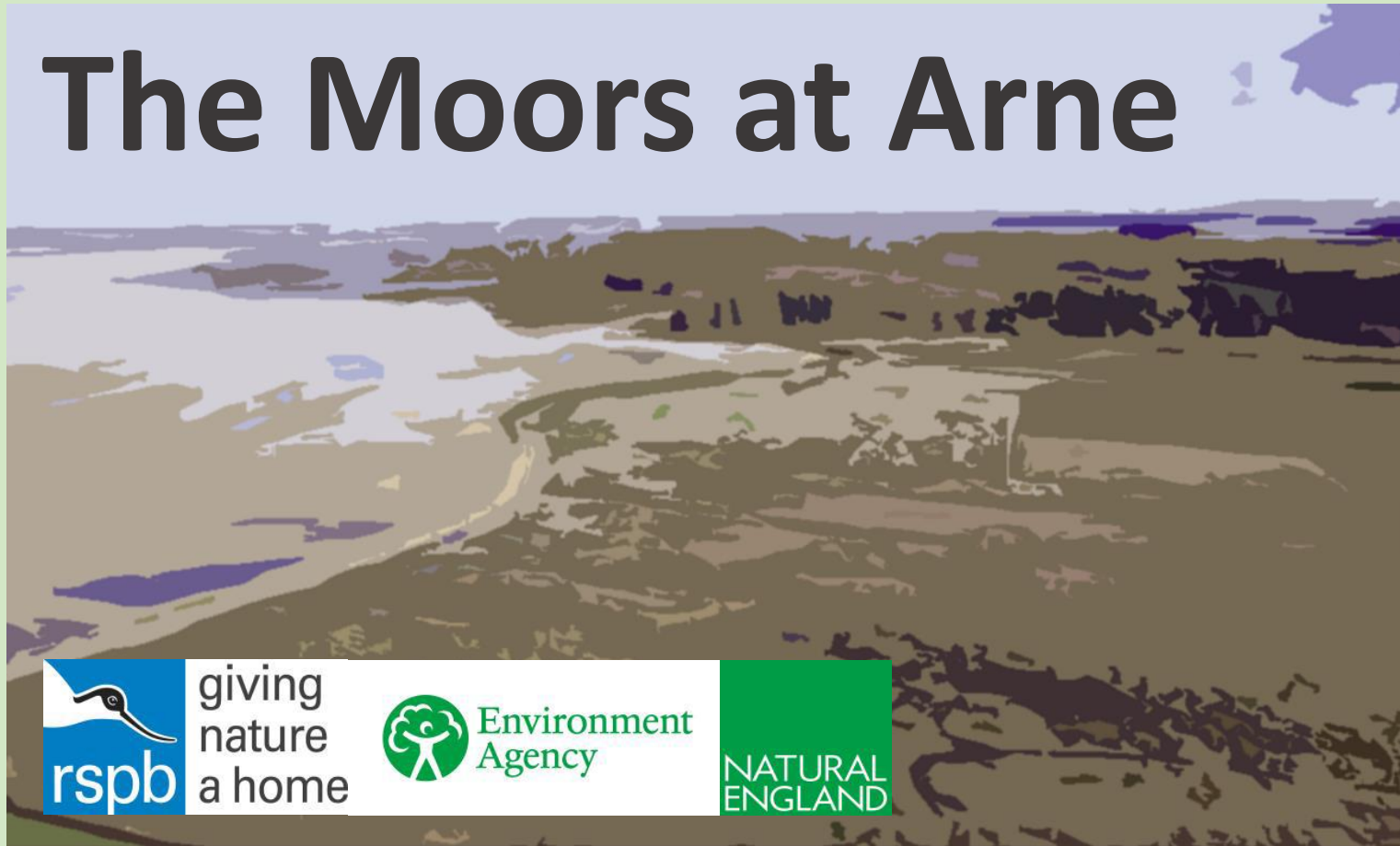


# Progress Update

- Ecological surveys
- Ground Investigation
- Archaeological trenching
- Bathymetry
- Detailed Design
- Public access
- Planning & Consents



# The Moors at Arne



## An Interim Summary of Archaeological Investigations

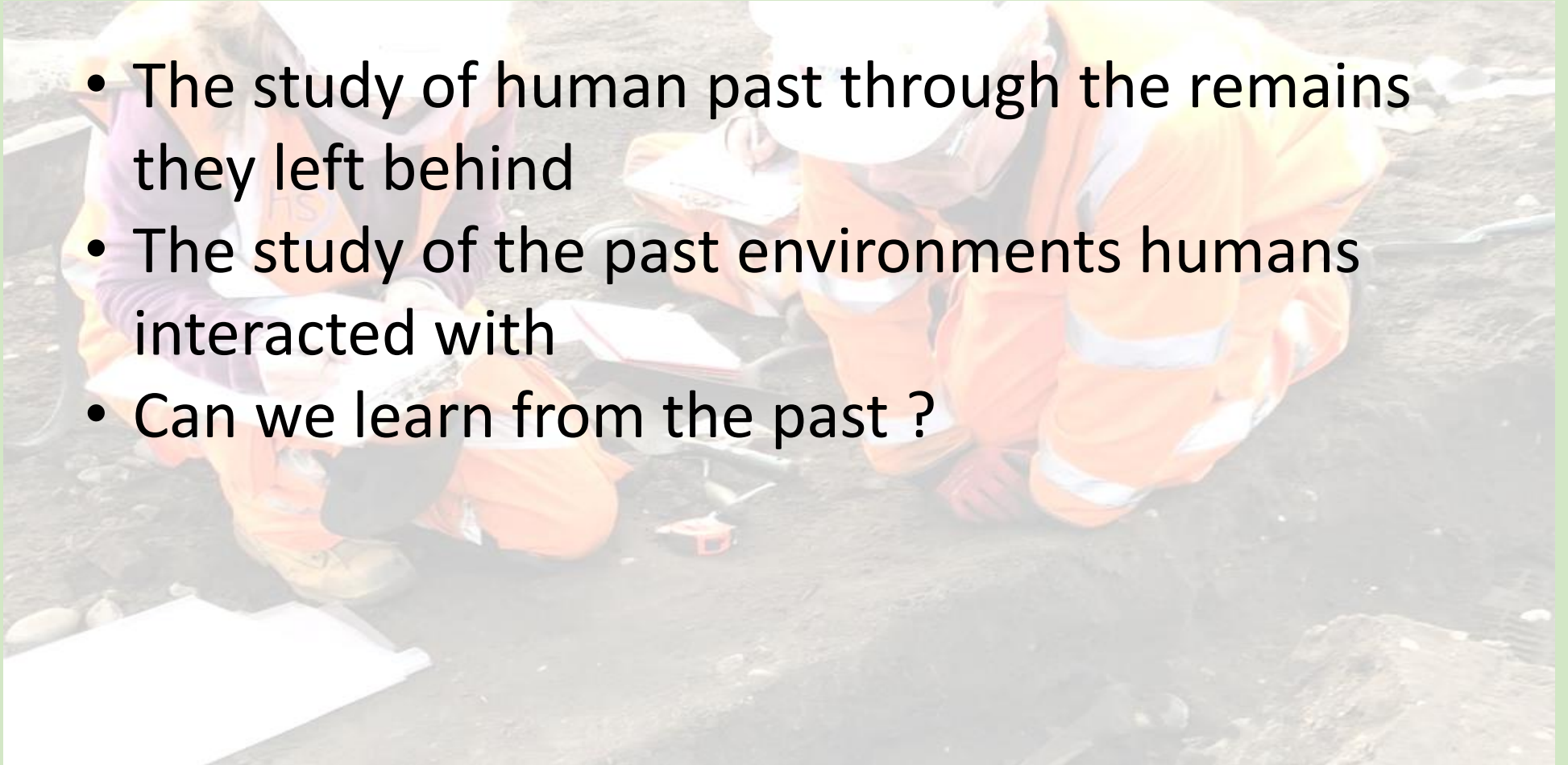
Greg Chuter  
Senior Archaeologist  
Environment Agency SW Team

# Programme

- What is archaeology? Why and how do we investigate it?
- Arne in the context of past climate and landscape change
- Past human interaction with climate change
- How have we investigated The Moors at Arne ?
- Evidence of past human interaction with the Arne landscape
- Further archaeological investigation

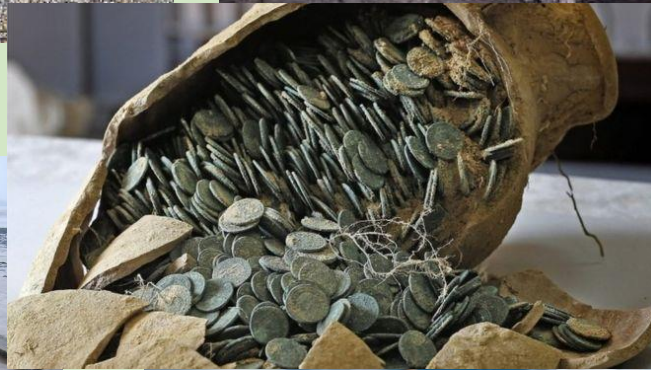
# What is archaeology ?

- The study of human past through the remains they left behind
- The study of the past environments humans interacted with
- Can we learn from the past ?





# Different types of archaeological remains



# Why do we need to investigate archaeology ?

- **National Planning Policy Framework:**
- Paragraph 189. “In determining applications, local planning authorities should require an applicant to **describe the significance of any heritage assets affected**, including any contribution made by their setting. The level of detail should be proportionate to the assets’ importance and no more than is **sufficient to understand the potential impact of the proposal on their significance**. As a minimum the relevant historic environment record should have been consulted and the heritage assets assessed using appropriate expertise where necessary. Where a site on which development is proposed includes, or has the potential to include, heritage assets with archaeological interest, local planning authorities should require developers to submit an appropriate desk-based assessment **and, where necessary, a field evaluation.**”
- **Environment Act:**
- Section 7.1. “It shall be the duty of each of the Ministers and of the Agency, in formulating or considering any proposal relating to any functions of the Agency to have regard to the desirability of **protecting and conserving** buildings, sites and objects of archaeological, architectural, engineering or historic interest;”



# Archaeological Investigation (so far)



## The Moors at Arne Coastal Change Project

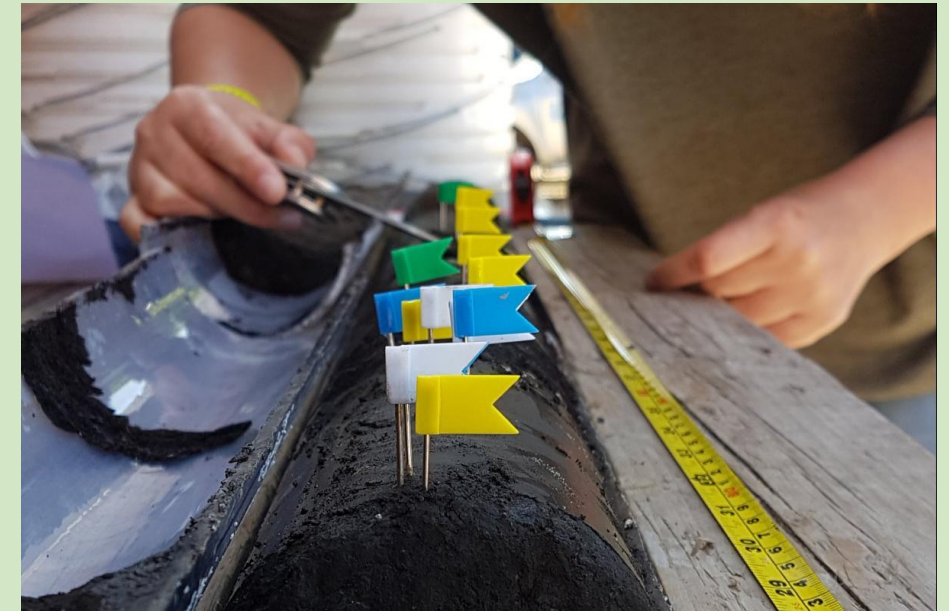
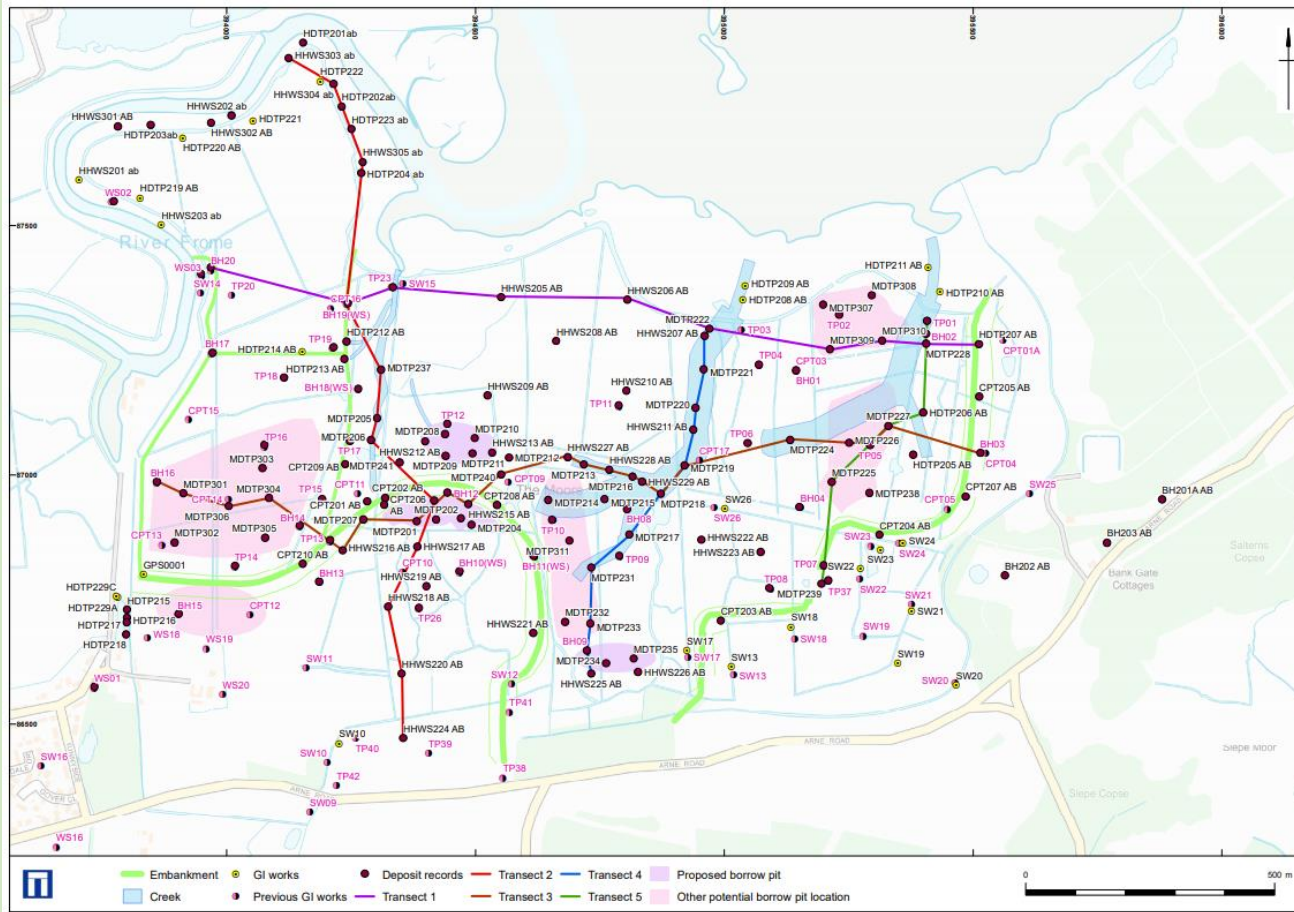
Historic Environment Desk-based Assessment  
Environment Agency

17 February 2020

ENVIMSW002130-ATK-XX-3XX-RP-HE-000001

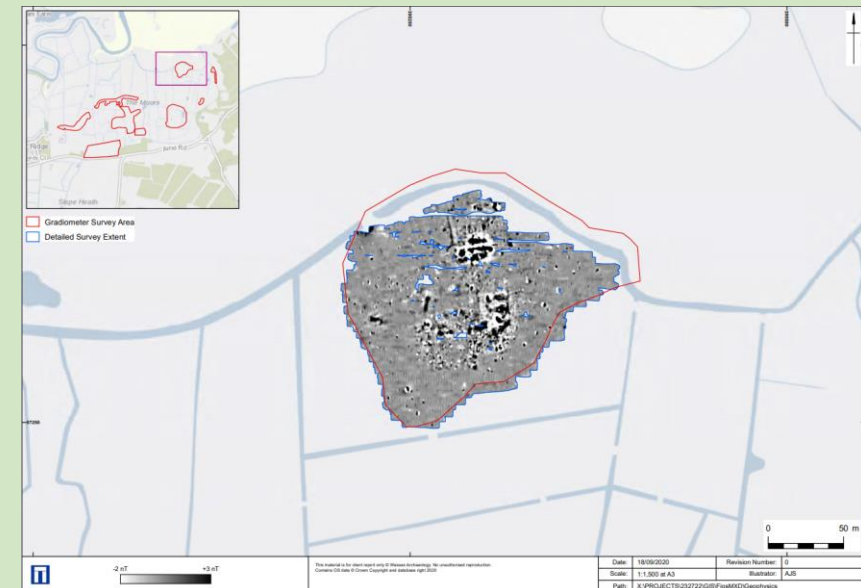
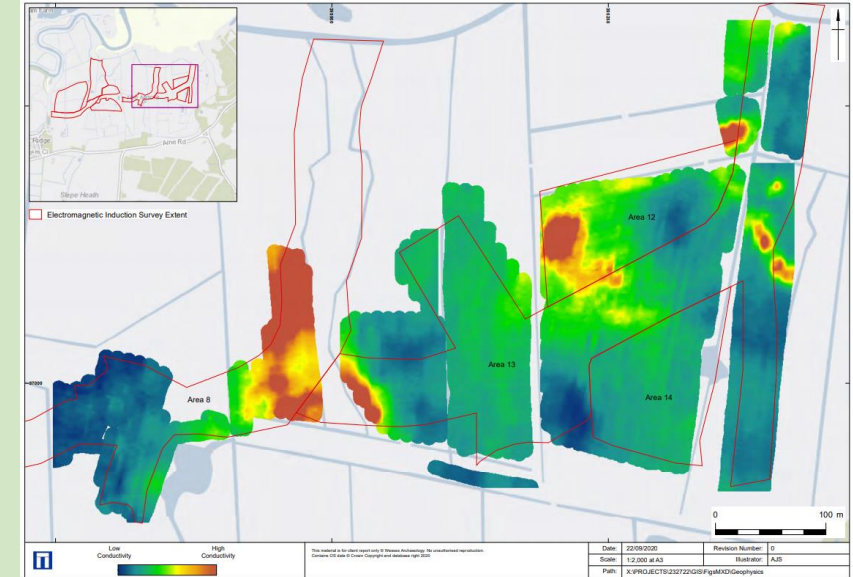
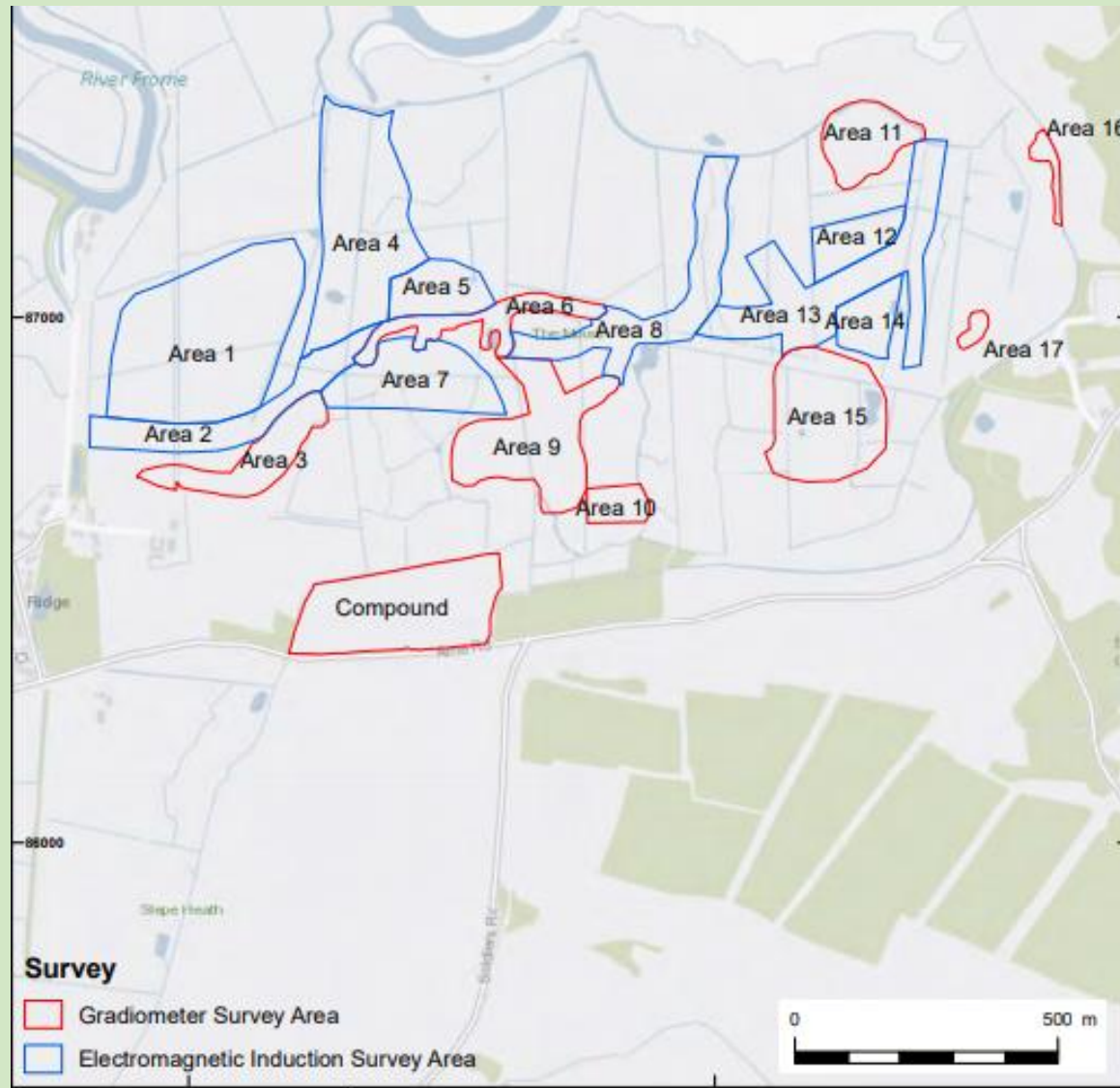


# Geo-archaeological deposit model





# Geophysical survey – Electro-magnetic and Magnetometry

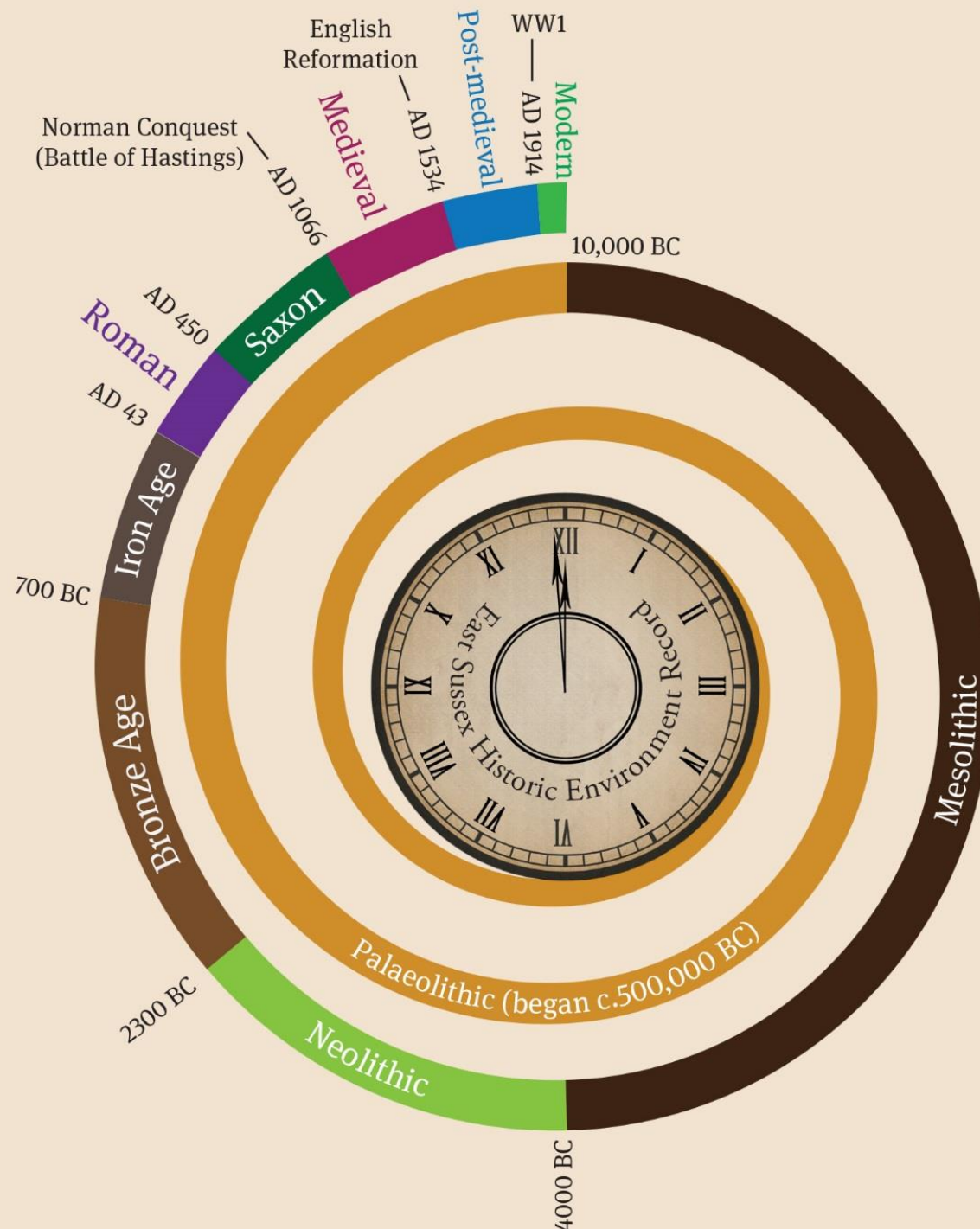




# Trial trenching



# Archaeological periods within the British Holocene



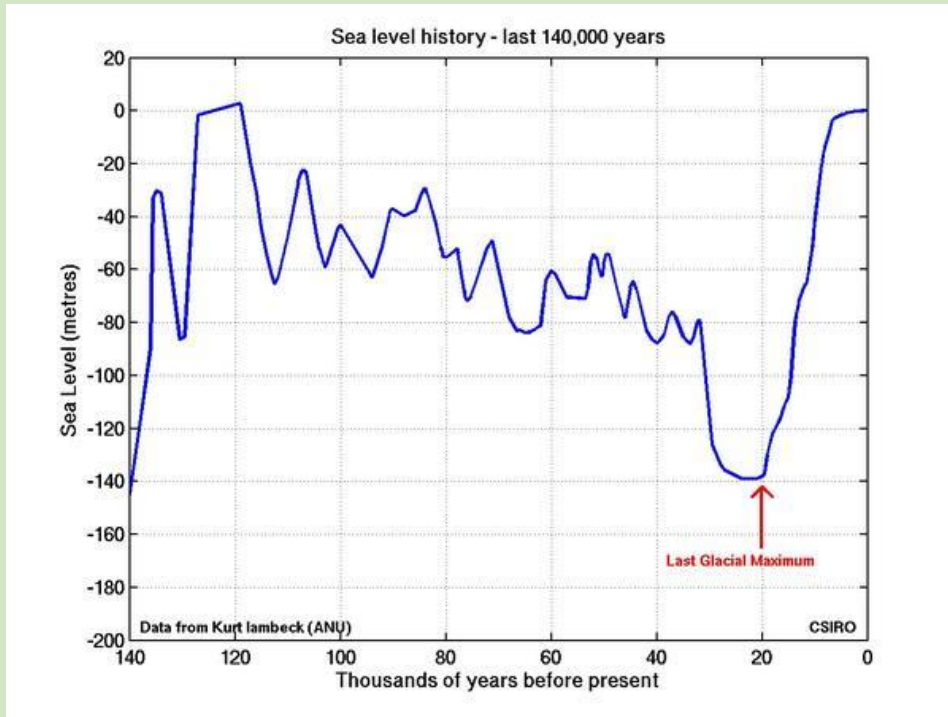


# The late Pleistocene and early Holocene – 1.26 million years of climate change



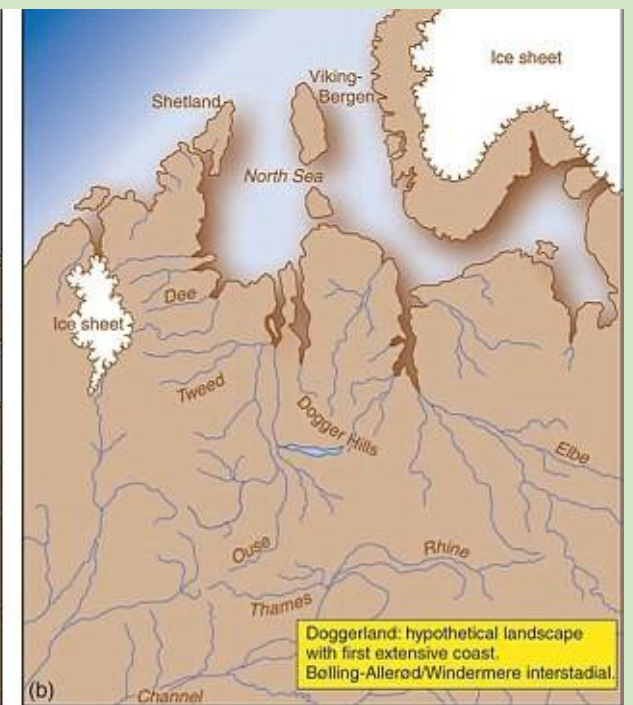


# Sea level change



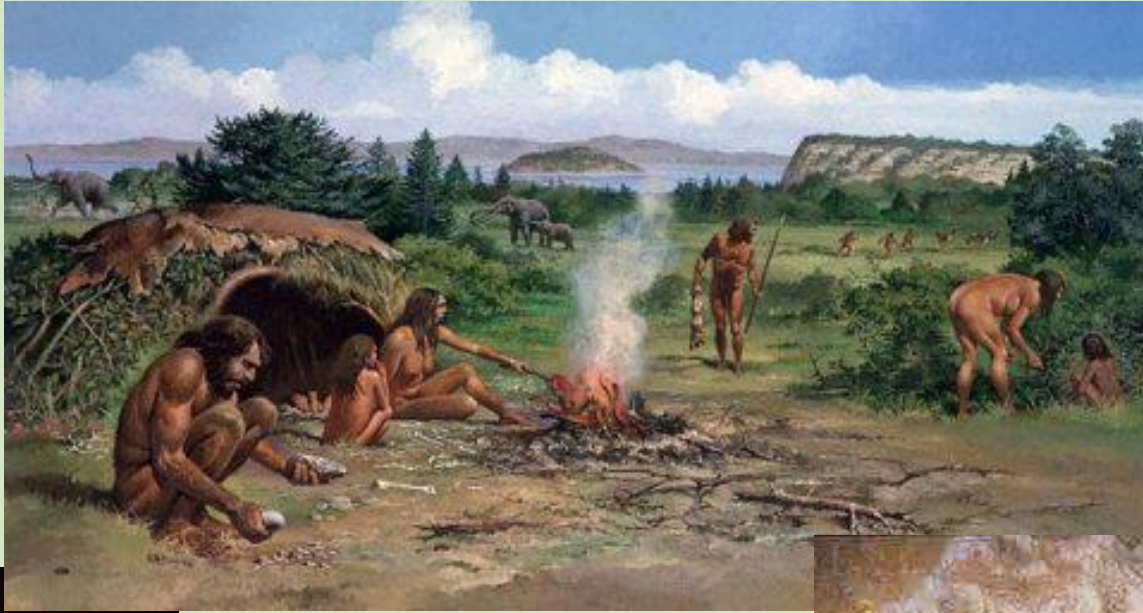
## Past Sea Levels around the British Isles

- Late Pleistocene >-30 m OD
- Early Post Glacial -22.5 m OD
- Early Mesolithic -9 m OD
- Late Mesolithic -5 m OD
- Neolithic -4 m OD
- Early Bronze Age -3 m OD
- Early Iron Age -2 m OD
- Mid Saxon -1 m OD

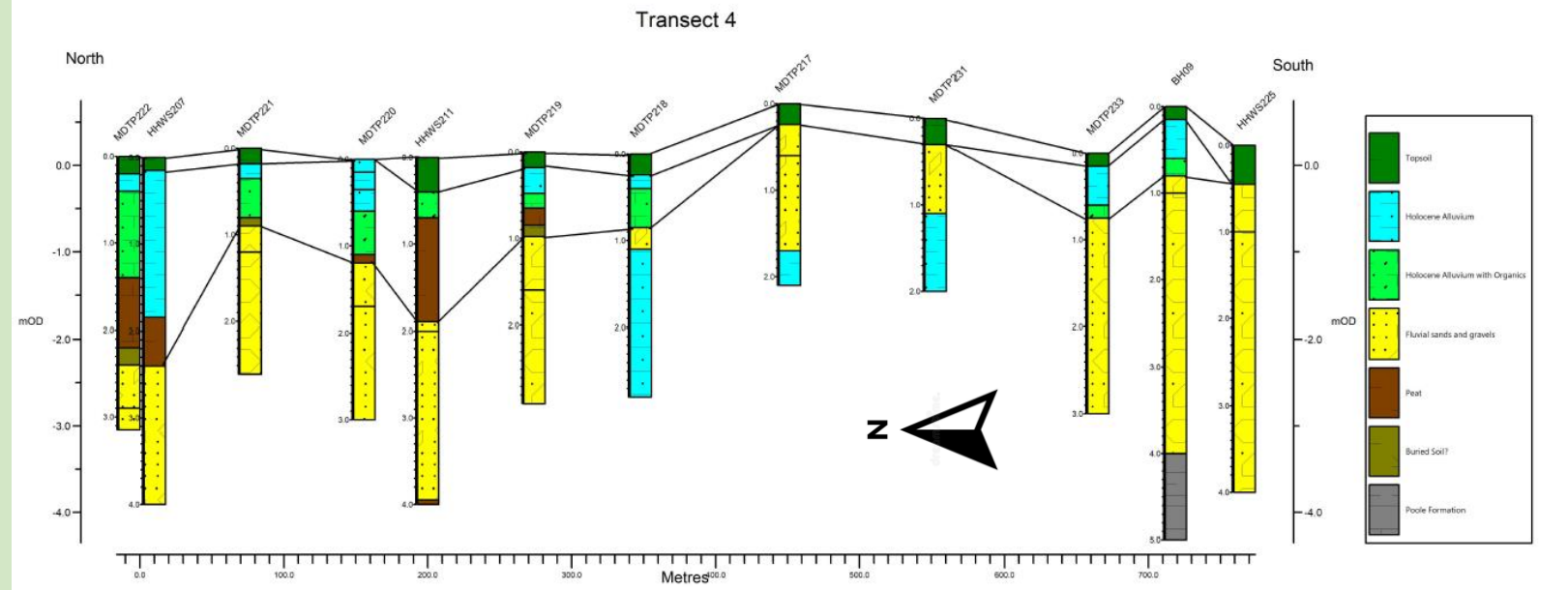
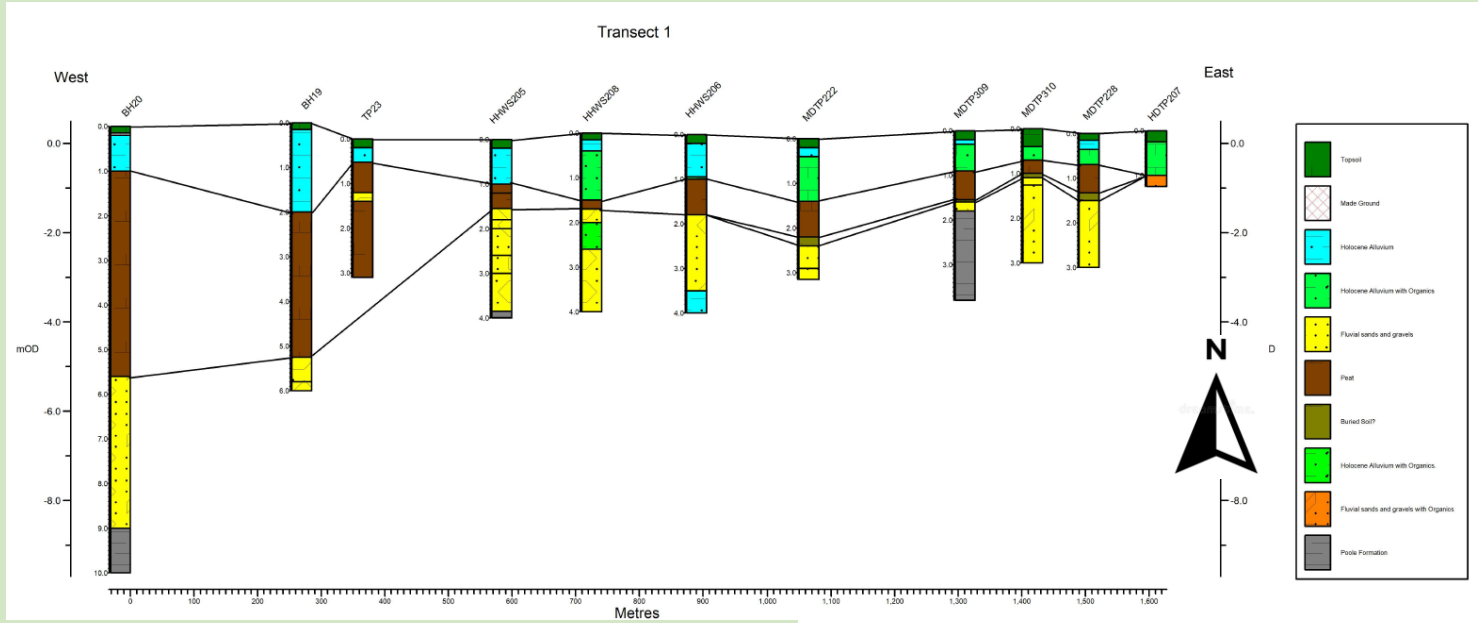




# Palaeolithic 500k – 10k BC (sea level -22.5 m OD)



# Geo-archaeological cross-sections – a story of landscape change





# A dynamic and evolving landscape (what it may have looked like)



Early Holocene braided river



Mesolithic carr woodland



Bronze Age reed marsh and eroded sands



Post-medieval grazed marshland



# Mesolithic 10k – 4k BC (sea level -9 m OD rising to -5m OD)

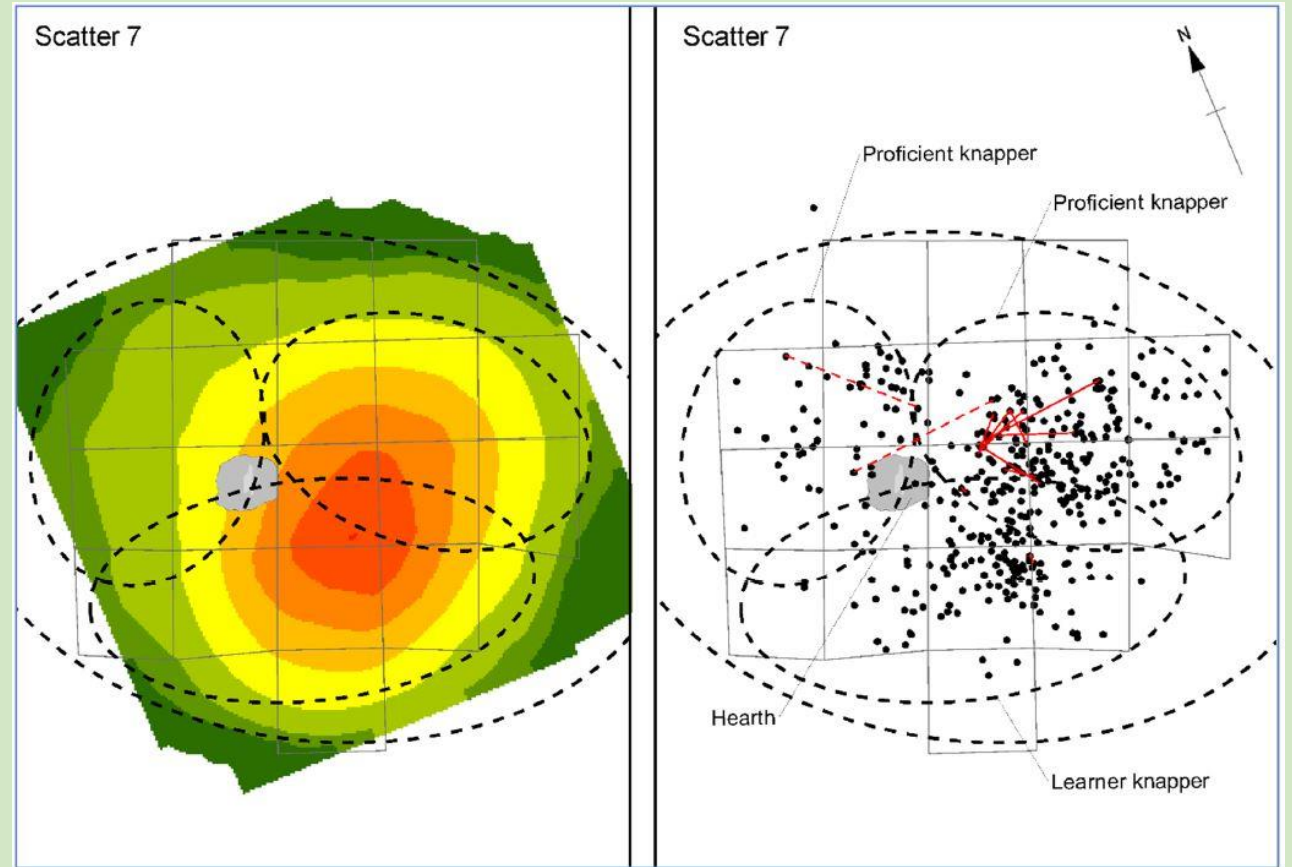




# Mesolithic 10k – 4k BC



Flint knapping sites  
(excavated example from  
Bexhill in Sussex – courtesy of  
Historic England)





# Impact on humans and the forming of Britain



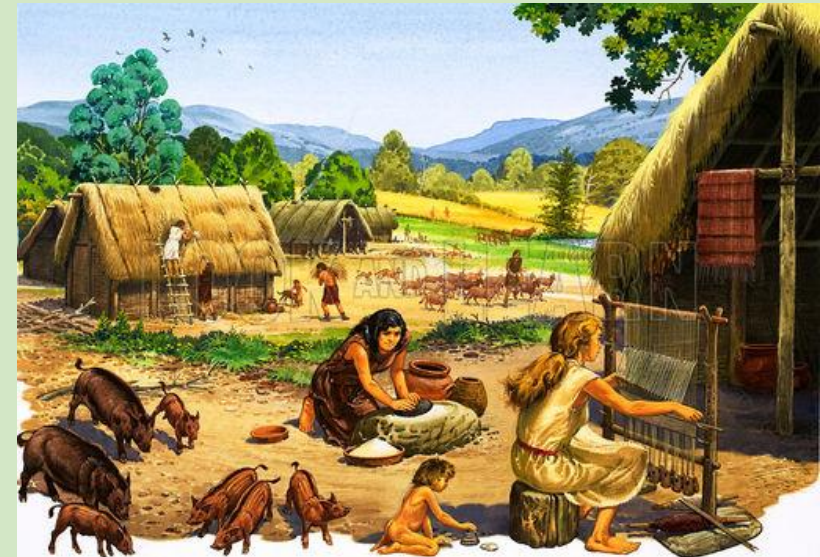
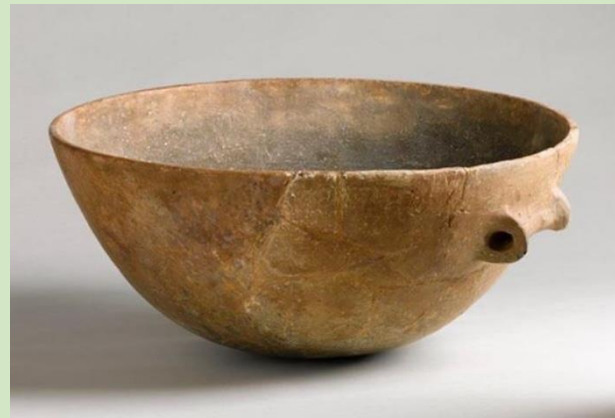
Mass migration  
Cultural integration



The mesolithic  
Horsham Point made  
of flint is seen as  
*the birth of distinctly  
British culture.*

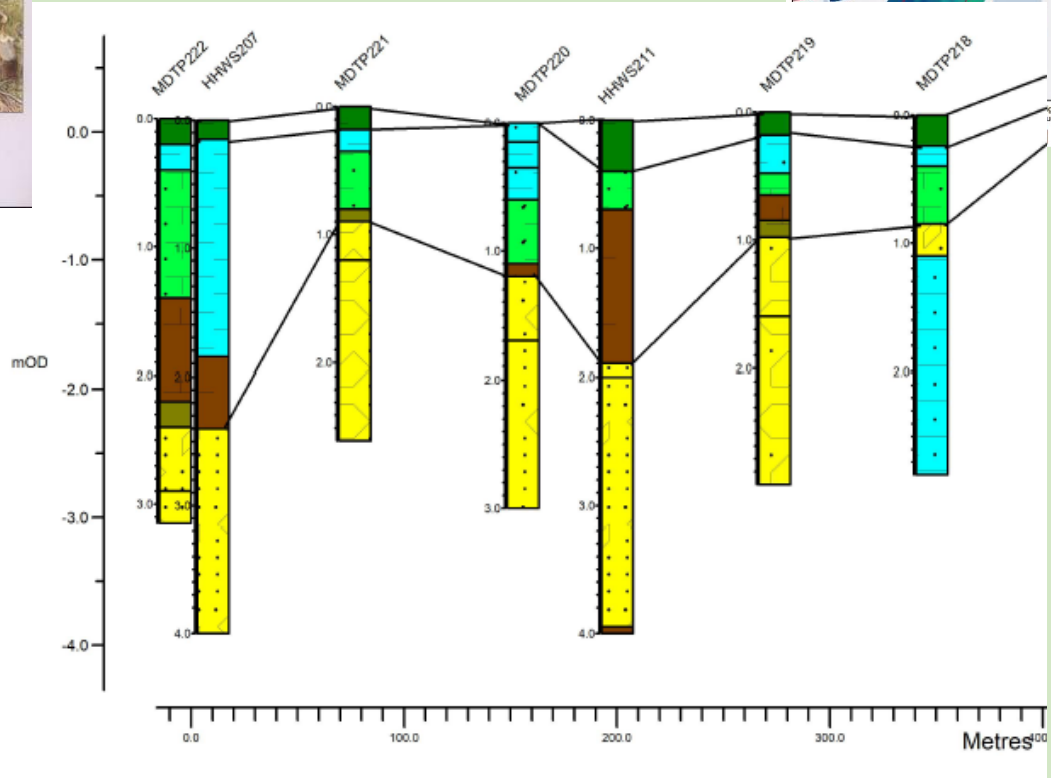
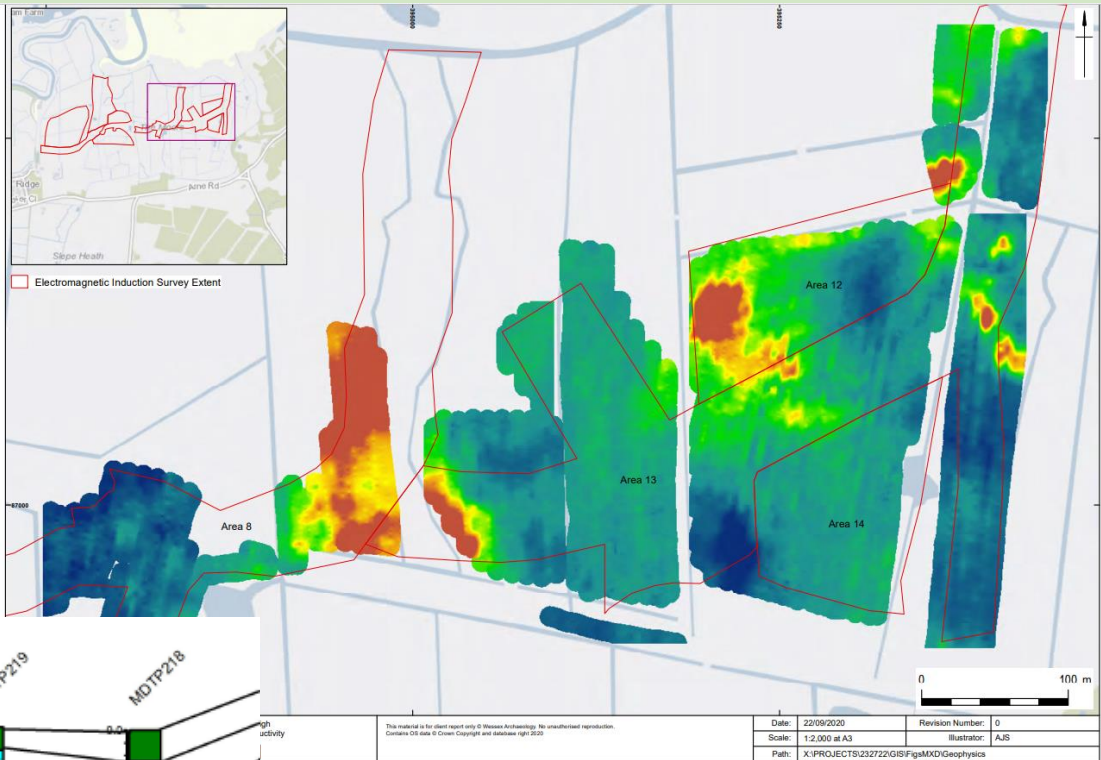
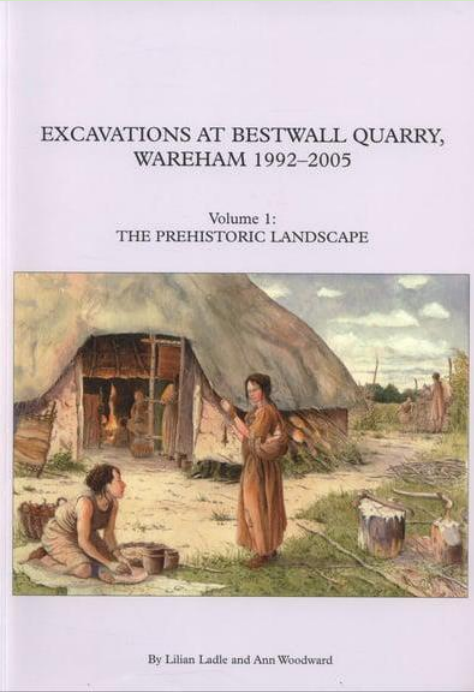


# Neolithic 4k – 1.5k BC – the birth of farming (sea level -4 m OD)





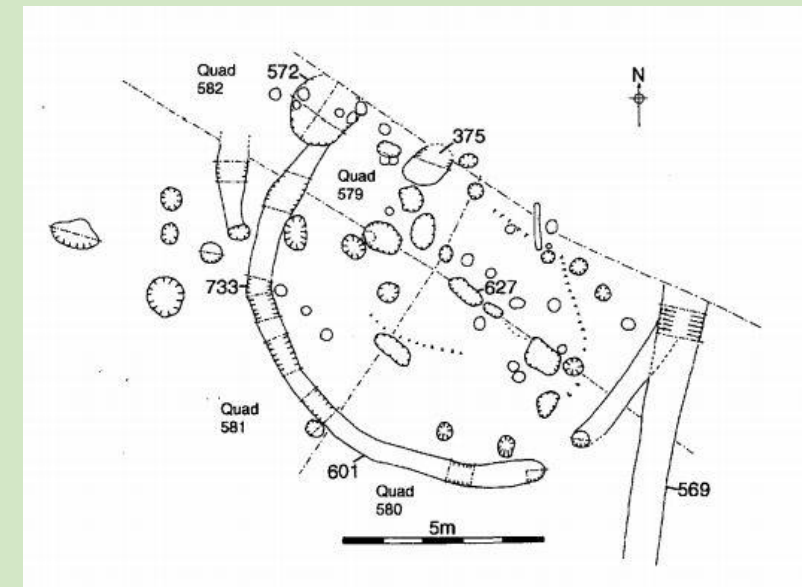
# Mesolithic / Neolithic activity ?





# Bronze Age, Iron Age and into the Roman interlude

(sea level -3 m OD rising to -1m OD)







# Iron Age finds



Fired clay



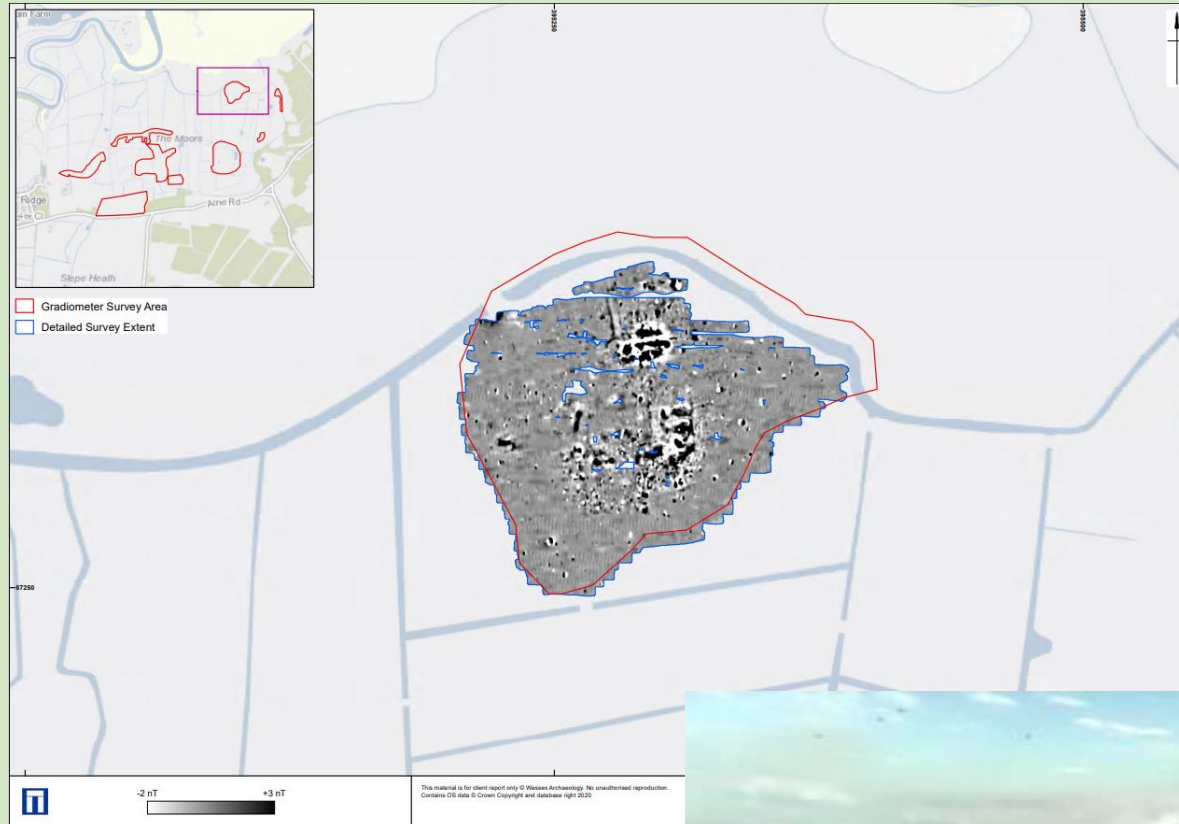
Pottery



Briquetage



# Iron Age and Roman finds



Black burnished ware



Salt and pottery production



Briquetage



# Medieval period (sea level -1m OD rising to +1m OD)



Nantwich Brine, Cheshire  
– salt production site



The Shaftesbury Abbey  
angel

The Wareham sword





# Medieval and Post-medieval evidence at The Moors at Arne



Monastic drainage - Possible medieval sea wall

## Post-medieval water management





# 'Modern' archaeology



WW2 bombing

Current trackways and ditches



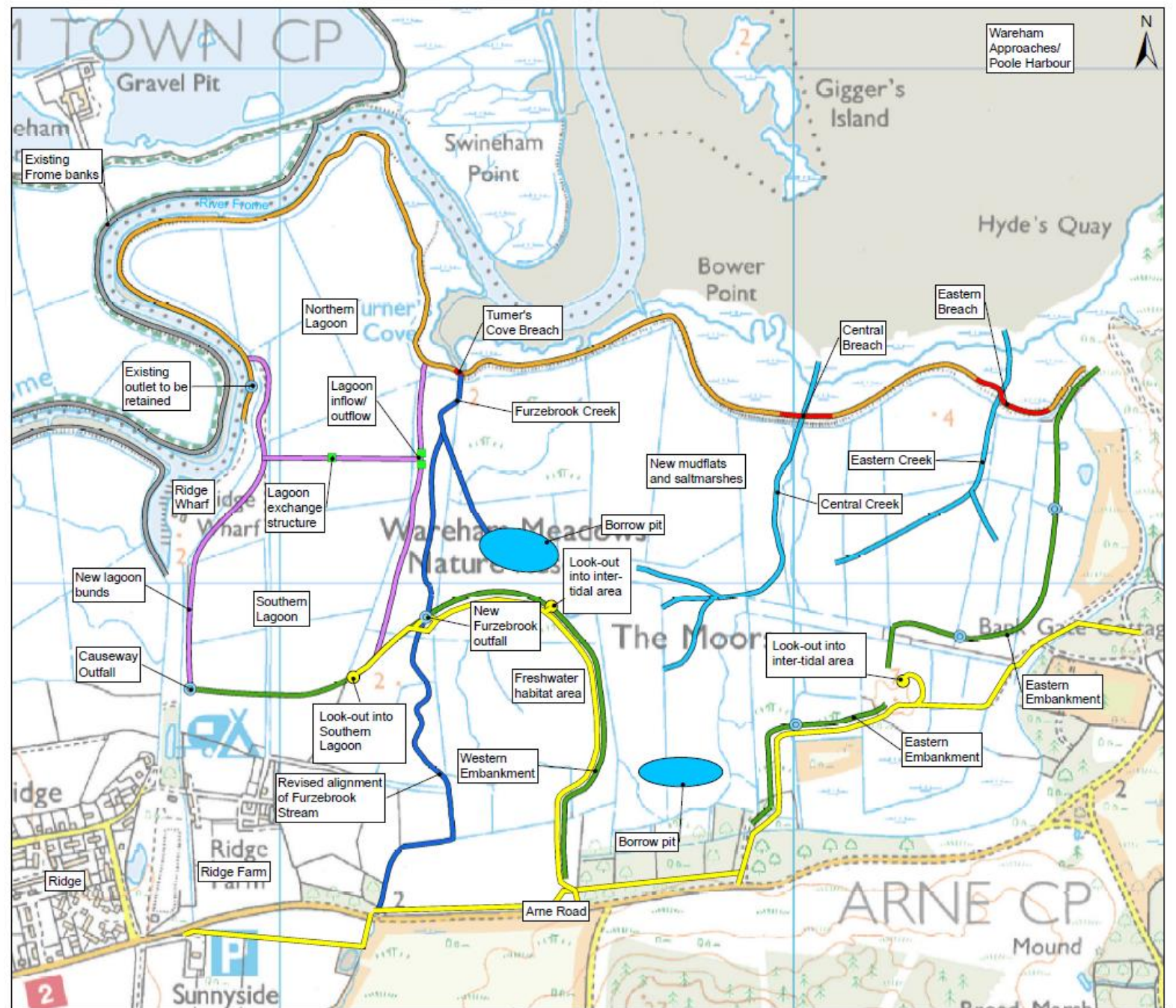


## Further archaeological work (pre planning)

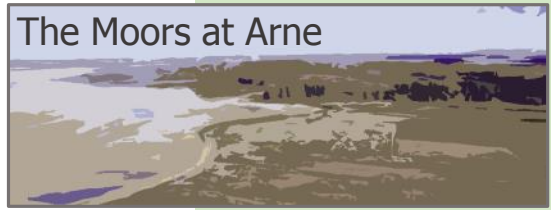
- Update the geo-archaeological deposit model, including C14 dates
- Second phase of targeted trial trenching
- Compile Heritage Chapter of Environment Statement as part of planning submission



# Open Forum



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 Project: P:\GBEMCWGE\Projects\Water\20190852 CDF-SW-WX Design Wareham\7 WIP\7\_6 CAD\_GIS\_BIM\01-WIP\GMP\Landscapes\ENVI\SW002130-ATK-XX-XX-DR-L-000003\_Arne\_Scheme\_Overview\_ProposedPublicAccess.mxd





# Next steps

## **Future Meeting Topics:**

Traffic & Public access routes  
(March)

Pre Planning Exhibition meeting  
(May)



The Moors at Arne