

*WSmith16 Field trip*

**Glaciodynamic history of North Norfolk: sedimentation and glaciotectonic deformation at the margins of the British Irish Ice Sheet**

3<sup>rd</sup>-5<sup>th</sup> June 2016



*An example of one of the chalk rafts on the north Norfolk coast at Overstrand.*

Field Trip Organisers

Edward Fleming (CASP)

Marie Busfield (Aberystwyth University)

Daniel Le Heron (Royal Holloway)

## Dates

4 pm Friday 3<sup>rd</sup> June to 4 pm Sunday 5<sup>th</sup> June 2016

Field trip starts and finishes at Burlington House, Piccadilly, London

## Overview

This 2 day field trip will explore the subglacial to proglacial evolution of a Pleistocene sediment assemblage along the North Norfolk coast. It will encompass a broad range of primary and secondary glacial deposits, which in places have undergone pervasive glaciotectonic deformation.

The trip aims to familiarise participants with:

- The late Quaternary history of the North Norfolk coast
- The diverse styles of sedimentation along the eastern margin of the BIIS
- The influence of subglacial through proglacial deformation on the sediment pile
- How archetypal and exceptionally well exposed Quaternary sedimentary and deformation may structures compare to the ancient record

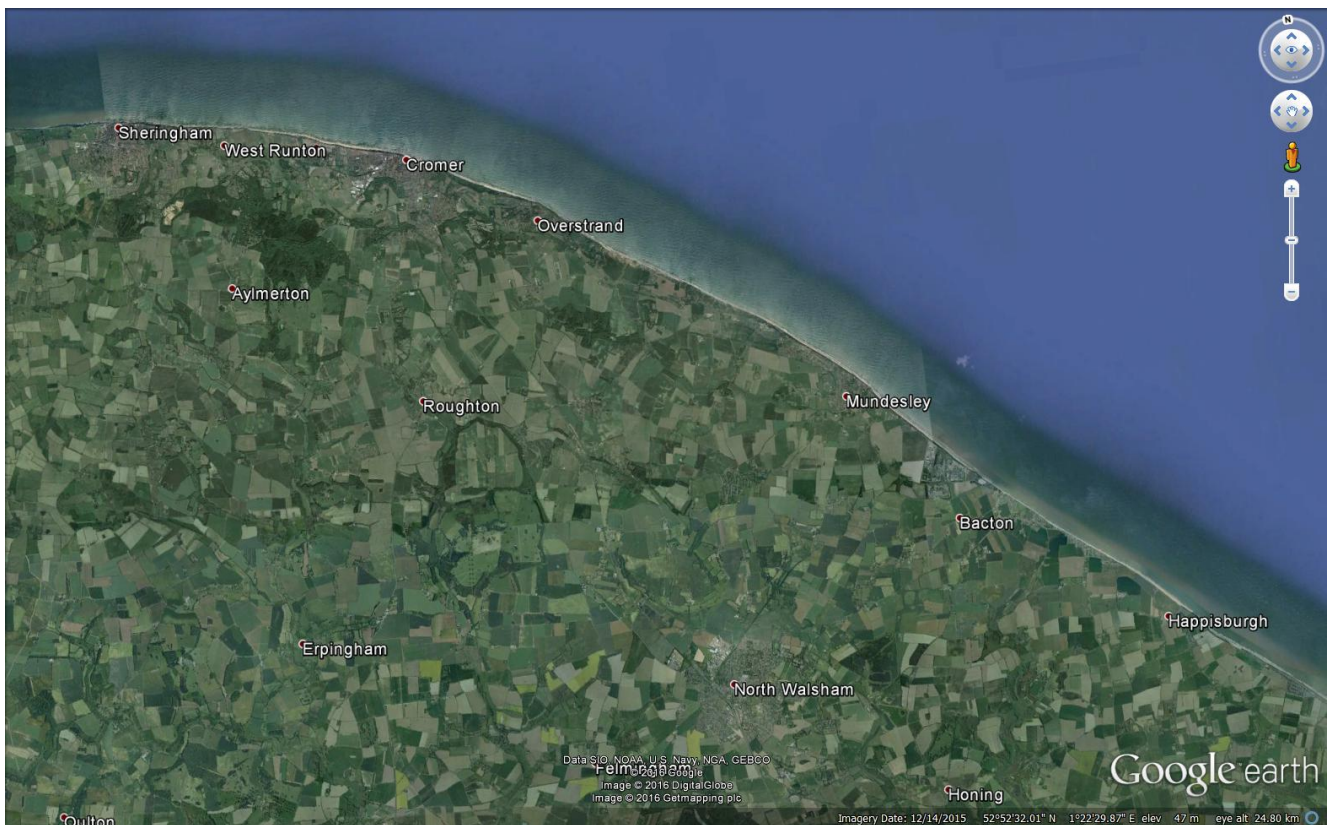


Figure 1. Map showing location of study areas. Day 1: Sheringham to Overstrand; Day 2: Bacton to Happisburgh. Accommodation located at Cromer.



**Provisional itinerary:**

**Day 1: Travel to North Norfolk and Introduction**

- Leave Burlington House immediately after conference (~ 4 pm)
- Travel to Cromer, North Norfolk
- Introductory talk on the Quaternary geology of the region

**Day 2: Sheringham to Overstrand**

- AM: First look at the spectacular chalk rafts at Overstrand
- PM: Coastal traverse from Sheringham to East Runton examining variation in style and intensity of subglacial through proglacial deformation

**Day 3: Bacton Green & Happisburgh**

- AM: Explore the development of a subglacial shear zone at Bacton Green
- PM: Examine a series of ridges in the basal Happisburgh Till at its eponymous locality
- Late PM: Return travel to Piccadilly, London. Aim to return by 4/4.30 pm for onward travel.



Figure 2: A selection of some of the spectacular glaciotectonic thrust structures, sheared boudins and chalk rafts along the north Norfolk coast from Sheringham to Happisburgh.

### **Register for the field trip**

For more information, or to register for the field trip, please contact Naomi Newbold ([Naomi.newbold@geolsoc.org.uk](mailto:Naomi.newbold@geolsoc.org.uk)) or Marie Busfield ([mab102@aber.ac.uk](mailto:mab102@aber.ac.uk)).

Please register online at: <http://www.geolsoc.org.uk/wsmith16>. Participants who would like to attend are encouraged to register as early as possible as spaces may be limited.

Cost to attend the trip will be **£215 per person**

### ***This attendance fee includes:***

- Transport to and from Burlington House, Piccadilly via coach and coach transport around Norfolk
- 2 nights accommodation dinner, bed and breakfast (see details below)
- Conference field guide

### ***Attendance fee does not include:***

- Packed lunches in the field. These can be purchased at nearby shops/cafes in Cromer and surrounding region.
- Onward travel to/from London.

### **Accommodation**

To keep costs at a minimum, accommodation will include dinner, bed and breakfast on site. Beds have been reserved in the Cliftonville Hotel, Cromer, with a combination of single, twin and double (single occupant) rooms.

<http://www.cliftonvillehotel.co.uk/>