

FIELD TRIP TO SOUTH LANDING and DANES DYKE, FLAMBOROUGH

Saturday 29th September 2018



View west from the cliffs above South Landing east. Note the chalk cliffs disappearing in the far distance – the Sewerby buried cliff section of last interglacial date.

<p>Excursion title</p>	<p>IN THE FOOTSTEPS OF LAMPLUGH AND CATT – SOUTH LANDING AND DANES DYKE</p>		
<p>Date & time</p>	<p>Saturday 29 September 2018, meet at 10.30 am, Living Seas Centre car park, Flamborough</p>	<p>Finish time:</p>	<p>4.30 pm approx</p>
<p>Leader(s)</p>	<p>Rodger Connell, University of Hull</p>		

Excursion aims and description	<p>In the early 1890s George Lamplugh published papers documenting, in some detail, the glacial stratigraphy preserved in palaeo-valleys cut into the bedrock chalk of Flamborough Head. Two sites in particular, Danes Dyke and South Landing, appear particularly important as they preserve sequences predating a unit that would now be called Skipsea Till, dating to the Dimlington Stadial of the Late Devensian (less than ~20,000 years BP), the type section of which is in south Holderness. Since Lamplugh's day little new research has been published on these Flamborough Head sites. However, the significance of the sites for the glacial stratigraphy and chronology of the advance of the North Sea Lobe of the last ice sheet in eastern England was realised by members of the Hull Geological Society's Flamborough Quaternary Research Group who have been documenting the sites since the early 2000s. Professor Mark Bateman (Sheffield University) has contributed significantly to this work providing a sequence of optically stimulated luminescence (OSL) age estimates to aid the interpretation of the sites.</p> <p>The trip will concentrate on examining the periglacial and glacial sediments and stratigraphy at the South Landing and Danes Dyke sites, south of Flamborough village on Flamborough Head. The evolving chronology of the sites will be discussed together with the implications for the timing of the advance of the North Sea Lobe of the last ice sheet into eastern England.</p> <p>If time permits on the Saturday a third site, to the south of Bridlington, will be visited to examine glacial deltaic and glacial lacustrine sediments at Barmston.</p>
Registration	<p>Pre-registration is required by email to fieldtrips@yorksgeolsoc.org.uk</p>
Meeting point and itinerary	<p>Meet at 10.30am at the Living Seas Centre car park, Flamborough South Landing (grid reference TA 230 695) http://www.ywt.org.uk/discover-learn/living-seas-centre/visiting-living-seas-centre. A parking charge of £2.90 per day (as advised at 20 June 2018) applies, please bring change for the ticket machine. Click here for OS Map online.</p> <p>After completing examination of the sections at South Landing the party will relocate via a short drive to the car park at the Danes Dyke Nature Reserve (pay and display, similar charges apply). OS grid reference TA 216 695, click here for OS Map online.</p>
Terrain, walking distance, height gain:	<p>The trip is suitable for participants in good health and with good mobility. Access from the car parks to the beaches at both South Landing and Danes Dyke are by tarmacked roadway and involve 80m ascent/descent with some 1.5 km walk at each locality.</p>

<p>General information on safety and equipment</p>	<p>A hard hat is essential. Please do not come without one.</p> <p>The chief hazards are those normally associated with excursions along beaches with adjacent cliffs.</p> <p>Rock falls: Cliff sections are unstable, particularly after heavy rain or during high winds. Approaching the cliff face must be avoided at all times.</p> <p>Rough and Slippery Terrain: The beach at South Lanading is composed of large chalk cobbles often covered by seaweed. This zone can be unstable under foot and slippery. Care must be taken when traversing these areas. Wear appropriate footwear with good grip.</p> <p>Tides: High 08.38 BST, Low 14:38pm, High 21:19pm. High 5.6m</p> <p>Weather: Consult weather forecast and bring appropriate clothing. Recommend bringing waterproof clothing, sun hat and sun block, and plenty of water.</p>
<p>Safety and Insurance</p>	<p>Registrants will be sent a Health and Safety risk assessment and fieldwork Code of Conduct by email in advance of the trip. You are requested to read both these documents carefully before the trip and take account of risks and recommended safety measures and clothing when planning your attendance. You will be given a safety briefing by the leaders at the start of trip, and will be asked to sign an attendance register to declare that you have read these documents and understood the briefing.</p> <p>The Yorkshire Geological Society has insurance arranged by the Geologists' Association which covers the Society and field trip leaders for public liability. Personal accident insurance is a matter for individual members and participants to arrange as they consider necessary.</p>
<p>Lunch and refreshments</p>	<p>Participants should bring a packed lunch and drinks to keep hydrated.</p>
<p>Toilets</p>	<p>Public toilets are available at both the Living Seas Centre and the Danes Dyke Nature Reserve.</p>
<p>Geological mapsheet for reference</p>	<p>BGS 1:50,000 series Flamborough and Bridlington Sheets 55 and 65 (combined), Solid and Drift Provisional Edition, published 1985. Click here to view online.</p>
<p>OS mapsheet for reference</p>	<p>1:50,000 Landranger Sheet 101 Scarborough</p> <p>1:25,000 Explorer Sheets 301 (Scarborough, Bridlington and Flamborough Head) and 295 (Bridlington, Driffield and Hornsea)</p>



Cliff section west of Danes Dyke. Tectonically deformed chalk bedrock overlain by periglacial and glacial sediments.