

## Edinburgh Geological Society – Excursions 2024



<b>Excursion title:</b>	Arbroath and Auchmithie		
<b>Date &amp; start time:</b>	Saturday 13 July 2024 9:00am	<b>Finish time:</b>	4pm
<b>Leader(s), organisation:</b>	John Taylor, Morag Smith and Robert Scott		

<b>Excursion summary:</b>	<p>Arbroath: Starting at Whiting Ness the group will view the Devonian Upper Old Red sandstone unconformably overlying the Lower old red sandstone sequence. We will trace this along the beach for approximately 250m observing various sedimentary features and debris flows. We will then walk along the top of the cliffs towards carling heugh bay noting along the way sedimentary features, fault orientations and geomorphological sites of interest like the Needle E'e, Mermaid's Kirk and Deil's Heid. Carlingheugh Bay has good outcrops of the conglomerates that are a feature of this coastline and the clasts ready to inspect along the foreshore.</p> <p>Auchmithie: Starting at the village hall we descend to the harbour between cliffs of the Auchmithie Conglomerate Member and down to the beach where the conglomerates can be viewed in detail and the calcite and barytes fault fill can be seen. After viewing the foreshore with other fine geomorphological features we will then return back to the village hall.</p>
<b>Meeting point:</b>	<p>Arbroath meeting point:</p> <ul style="list-style-type: none"> <li>Lat/Lon: 56° 33' 39" N 2° 33' 23" W</li> <li>OS: Map Sheet: NO64SE NGR: NO 65894 41113</li> <li>What3Words: ///flip.decay.hulk</li> </ul> <p>Park at the east end of kings drive/Victoria park, near the cliffs. Parking available around old toilet block and along promenade walkway.</p> <p>Auchmithie meeting point:</p> <ul style="list-style-type: none"> <li>Latitude/Longitude: 56° 35' 20" N 2° 31' 26" W</li> <li>OS: Map Sheet: NO64SE NGR: NO 67924 44240</li> <li>What3Words: ///spun.servicing.courts</li> </ul>
<b>Transport details:</b>	Coach depart Waterloo Place, 9am; meet in Arbroath 10:30am
<b>Extra pick-up points for coach:</b>	Blackhall, Barnton and the Ferry Toll Park and Ride
<b>Outline of the excursion route:</b>	<p>Arbroath: Starting at Whiting Ness, Arbroath a short beach/rocky platform walk, then up and over the cliff tops to Carlingheugh bay and return.</p> <p>Auchmithie: Starting at the village hall, a walk downhill along the gravel cart road to Auchmithie harbour and beach, look around the foreshore and return.</p>
<b>Terrain, walking distance, height gain:</b>	<p>5km return walk along cliff top path which is paved.</p> <p>Small section of rocky beach walk at the start.</p>

<b>Additional Hazards not included in the <i>EGS Excursion Handbook</i>:</b>	N/A
<b>Control measures required to mitigate against any Hazards referred to above:</b>	N/A
<b>Hard hats or Hi-viz clothing needed?</b>	Hard hats recommended below the cliff faces and if entering caves
<b>May dogs be brought on the excursion?</b>	No
<b>Toilet information:</b>	Public toilets available at: Ness, Victoria Park next to parking area in Arbroath 4 Fountain Square, Auchmithie a short walk from the village hall.
<b>Geological map sheet:</b>	Scotland sheet 49
<b>References:</b>	<a href="http://taysidebiodiversity.co.uk/auchmithie-trail-leaflet">auchmithie trail leaflet (taysidebiodiversity.co.uk)</a> <a href="http://bgs.ac.uk/MediaWiki/Arbroath,%20Crawton%20and%20Stonehaven%20-%20an%20excursion">Arbroath, Crawton and Stonehaven - an excursion - MediaWiki (bgs.ac.uk)</a> <a href="http://scottishwildlifetrust.org.uk/seaton-cliffs">Seaton Cliffs   Scottish Wildlife Trust</a> <a href="http://nature.scot/SiteLink-Whiting-Ness-Ethie-Haven-SSSI">SiteLink - Whiting Ness - Ethie Haven SSSI (nature.scot)</a> <a href="http://scottishgeologytrust.org/Whiting-Ness">Whiting Ness — SGT Geosites Project (scottishgeologytrust.org)</a> <a href="http://scottishgeologytrust.org/Whiting-Ness-Angus">Whiting Ness, Angus   GeositesGB (scottishgeologytrust.org)</a>

The screenshot shows the OpenStreetMap website interface. At the top, there's a search bar with the text "Locate map" and a search icon. Below it, there are tabs for "Auto Plot", "By Road", "On Foot", "By Bike", "Road Side", "L", "R", "Map Type", and "Street Map". The map itself shows a coastal area with residential streets, parks, and the sea. A blue line represents a cycling route, starting from a red pin at the bottom left, passing through Hayshead, Cliffburn, and ending at a red pin at the top right. The route is marked with numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The sidebar on the right contains a "UNDO" button, a "HILLS" button, a "TERRAIN" button, a "DIRTY" button, a "PHOTOS" button, a "TIMER" button, a "SAVE" button, a "PRINT" button, a "SHARE" button, a "DOWNLOAD" button, and a "CLEAR" button. At the bottom, there's a "TOTAL ASCENT = 144 ft (approx.)" and a "92 ft" label.