

Edinburgh Geological Society – Excursion Programme 2021

Excursion title: Yellow Craig and the Weaklaw Vent, East Lothian
Date & time: Saturday 17th July 2021, 10am **Finish time:** 3pm
Leader(s): Angus Miller, David Stephenson, Brian Upton



Excursion aims and description:	Two contrasting sets of volcanic rocks lie to the west of Yellowcraig. Recent research (Upton et al., 2019) has described a small late-Carboniferous volcanic vent at Weaklaw, with lava splatter and volcanic bombs containing ultramafic xenoliths. The rocks have been extensively metasomatised by carbonic fluids. This vent erupted through an earlier sequence of early-Carboniferous welded ignimbrites and lava flows, part of the Garleton Hills Volcanic Formation (Upton et al., 2020). The excursion will visit both sets of volcanic rocks and explore the wider context of volcanic activity and later alteration in this area.		
Meeting point:	Yellow Craig Car Park, Ware Road, Dirleton EH39 5DS. Grid reference NT515855.		
First locality:	Longskelly Rocks, NT513860.		
Excursion route:	Follow path from the car park to the beach and head west along the coast past Longskelly Rocks and Marine Villa to the Weaklaw Vent at the Hanging Rocks. Return by coastal path.		
Terrain, walking distance, height gain:	5km on rough paths with 30m ascent.		
Specific or Medium- / High-Risk Hazards:	None		
Control measures required to mitigate against any Hazards referred to above:	None		
Hard hats or Hi-viz clothing needed?	No		
May dogs be brought on the excursion?	Yes		
Toilet information:	Toilets at the meeting point, open during the day.		
Geological map sheet:	Haddington 33W	OS map sheet:	Explorer 351
References:	<p>Lothian Geology pp103-108.</p> <p>Upton, B., Odling, N., Kirstein, L., Underhill, J., Puziewicz, J., Ntaflos, T., Bagiński, B., Hillier, S., Andersen, J., Rollinson, G. and Perrillat, J., 2019. The Weaklaw Vent, SE Scotland: Metasomatism of eruptive products by carbo-hydro-fluids of probable mantle origin. <i>Mineralogical Magazine</i>, 83(6), pp.855-867.</p> <p>Upton, B., Kirstein, L., Odling, N., Underhill, J., Ellam, R., Cayzer, N. and Clarke, B., 2020. Silicic volcanism in the Scottish Lower Carboniferous; lavas, intrusions and ignimbrites of the Garleton Hills Volcanic Formation, SE Scotland. <i>Scottish Journal of Geology</i>, 56(1), pp.63-79.</p>		