

# Cainozoic geology and landscape evolution of north-east Scotland - important localities

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Merritt, J W, Auton, C A, Connell, E R, Hall, A M, and Peacock, J D. 2003. Cainozoic geology and landscape evolution of north-east Scotland. Memoir of the British Geological Survey, sheets 66E, 67, 76E, 77, 86E, 87W, 87E, 95, 96W, 96E and 97 (Scotland). Contributors: J F Aitken, D F Ball, D Gould, J D Hansom, R Holmes, R M W Musson and M A Paul.

Sites of significance		
Site number	Site name	Site characteristics and significance
1	Teindland	Long sequence; 4 tills; Ipswichian palaeosol; luminescence dated sand
2	Boyne Limestone Quarry	Mesozoic rafts; glacitectorites; 3 tills one shelly; Whitehills Glacigenic Formation with OIS 2/3 shells
3	Castle Hill, Gardenstown	Mesozoic rafts; glacitectorites; 3 tills one shelly; Whitehills Glacigenic Formation with OIS 2/3 shells; capped by glaciolacustrine Kirkburn Silt Formation
4	King Edward	Rafted OIS 3/4 shelly deposits
5	Crossbrae Farm, Turriff	Early Devensian peat bed; gelifluctates
6	Howe of Byth Quarry	Windermere Interstadial peat; OIS 2 till; OIS 3 gravel (luminescence dated)
7	Kirkhill and Leys quarries	Longest sequence in region; 2 palaeosols; 5 gelifluctate beds; three 100 ka cycles represented (3 tills)
8	Oldmill pit	Mesozoic rafts; glacitectorites; 2 tills, old gravel
9	Philorth valley	Estuarine deposits and peat; Holocene sea level change
10	Ugie valley	Glacial Lake Ugie and possible mid OIS 2 readvance; tundra polygons
11	St Fergus	Raised OIS 2 glaciomarine silts and late readvance; tundra polygons
12	Sandford Bay	Logie-Buchan Drift Group deformation tills and clays on 'local' till with sparse Norwegian erratics
13	Windy Hills	Neogene quartzite gravels; tills and gelifluctates; GPR traverse
14	Moss of Cruden	Devonian Smallburn Sandstone Formation outlier Lower Cretaceous Moreseat Sandstone Formation outlier Neogene Buchan Ridge flint/quartzite gravels Camp Fault; Early Devensian peat bed, 2 tills
15	Ellon (Bellscamphie)	'indigo' shelly till; long sequence with 4 tills
16	Kippet Hills (Slains)	Esker; Logie-Buchan Drift Group; early Pleistocene shells
17	Errrollston Clay Pit	Logie-Buchan Drift Group deformation tills and clays
18	Mill of Dyce pit	Deglaciation of lower Don valley; deltaic sequence
19	Strabathie, Bridge of Don	Deltaic sequence formed during parting of ice streams
20	Nether Daugh, Kintore	Meander infill; late Holocene environmental change

21	Rothens, Monymusk	Kettle hole infill; Late-glacial sequence
22	Nigg Bay, Aberdeen	Long sequence including elements of four drift groups
23	Loch of Park, Banchory	Late-glacial to Holocene pollen sequence
24	Balnakettle, Fettercairn	Tectonised sequence; late readvance of East Grampian ice
25	Knockhill, Glenbervie	Windermere Interstadial peat bed under landslipped till
26	Burn of Benholm	Red till on Early Devensian peat on shelly diamicton

## Important localities

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