

---

## 29 Broomlee Lough

**Theme:** Climate and landscape change

### Location

The pavement is on the northern shore of Broomlee Lough, which is north of Hadrian's Wall. You can reach it by walking from Housesteads visitor centre. [NY 790 698]. The Hadrian's Wall bus service stops at Housesteads.

### Description

On the northern shore of Broomlee Lough is a limestone pavement: a natural platform of bare limestone rock cut by fissures, like a very rough set of paving slabs.

The limestone is Carboniferous and called the Oxford Limestone. It is over 320 million years old but the "pavement" feature was mostly created after the last ice sheet left 15,000 years ago. This is a very rare feature for Northumberland. There are many limestone pavements in the Yorkshire Dales and in south Cumbria but not in our county.

It happens when an ice sheet scrapes off all the soil and loose rock and leaves the limestone exposed. That leaves the rock open to the elements. Rain absorbs carbon dioxide from the atmosphere and the weak carbonic acid eats into the joints of the limestone, which is mostly made up of calcium carbonate — creating this natural pavement. The blocks are called clints and the fissures are called grikes.

This fragment of rare limestone pavement supports lime-loving plants such as small scabious, salad burnet, common rock-rose, fairy flax and mouse-ear hawkweed.

### Photographs

(Photo 29-1) Limestone pavement, Broomlee Lough.

(Photo 29-2) View west of Broomlee Lough from near Sewingshields Crag.



(Photo 29-1) Limestone pavement, Broomlee Lough.



*(Photo 29-2) View west of Broomlee Lough from near Sewingshields Crag.*