A glacier once filled Glen Rosa with ice hundreds of metres thick. On this walk you will explore glacial landforms and learn about the processes that created them.

**Walk 4**

**Glen Rosa**

**Distance**: 5 km / 3 miles  
**Approximate time**: 2 hours  
**Start**: Glen Rosa Camp Site  
**Terrain**: Rough uneven track, steep in places.  
**Route description**: From Glen Rosa car park follow the track west and into the glen. There are no Geopark marker posts on this walk. Return by the same route.

For more information on our interpretation centres, guided walks and other events please visit:  
www.ArranGeopark.co.uk

Arran Geopark is a project of the Arran Access Trust  
Scottish Charity number SC029027.
Glen Rosa Walk

Glen Rosa is one of Arran's most spectacular glaciated valleys. At its maximum, around 18,000 years ago, the ice would have been hundreds of metres thick here.

Glaciers are an incredibly powerful agent of erosion. Rocks from the mountains are ripped away from the landscape and become embedded in the base of the glacier. As they move downhill - like slow rivers of ice - they act like sandpaper scouring out these deep glens.

This is what Glen Rosa would have looked like during the last Ice Age!

The lower glen
This area is typical of a glaciated valley: the sides of the glen are steep, and the floor is flat, with a stream that is too small to have eroded this valley on its own. This ‘U-shape’ is characteristic of glens that have been carved by ice.

Evidence of glaciers
As you walk further into the glen, you will see large mounds either side of the Rosa Burn. These are called moraines, and are piles of sediment dumped by the glacier that carved out Glen Rosa.

Glaciers are full of eroded rock particles, from microscopic fragments to huge boulders. When the ice melts, these sediments are left on the landscape and provides geologists with evidence of past processes.

These lumps either side of the river are thick layers of sand and gravel deposited by a glacier.

Look for whitish granite stones on the path, can you see the individual crystals that make up the rock? These are quartz (grey), feldspar (white), and mica (black).

Glen Rosa is owned and protected by the National Trust for Scotland. Trees were once abundant in the area, but overgrazing has meant that they have mostly disappeared from the glen. A major project is under way to plant native woodland in the glen. This will improve the biodiversity of the area - which is great news for insects and for birds.

Cir Mhór
Just before you reach the Garbh Allt bridge, you will have a fantastic view of Cir Mhór. It is perhaps Arran’s most impressive mountain, and is an example of a ‘pyramidal peak’ – a mountain formed as several glaciers eroded backwards towards each other.

Cir Mhór, and the other mountains surrounding Glen Rosa, are made of granite, a hard igneous rock that formed from the cooling and solidifying of magma sixty million years ago.