



The rocks of the Syöte region are extremely ancient. Much of the local bedrock was formed over 2,500 million years ago, and the area's granitic-gneiss outcrops are among the oldest rock formations in the world. The rocks visible here now are in fact the rocks of ancient mountains which once stood many kilometres high, but have now been eroded away over millions of years.

But many of the Syöte area's most interesting geological formations only date back a few thousand years, to the end of the last ice age. After the continental ice sheet melted, Syöte lay on the shores of the vast Anclyus Lake. Ancient raised beaches formed during this period can be clearly seen on the southern slopes of eskers at Pytkynharju and Naamankaharju.

The heavy masses of moving ice reshaped the landscape, alternately eroding the ground or depositing new material. Glacial moraine is the most common soil type around Syöte, and has an average thickness here of 4-7 metres. Moraine tends to even out the landscape by filling hollows and valleys. Traces of glacial erosion are most easily seen up on the hilltops and in rocky rupture valleys.

As the ice sheet melted, glacial rivers piled up material inside the ice in places, forming eskers, the largest of which form the Rytinkijārvi esker chain – including the Pytkynharju Esker which can be seen on this trail. In places, huge blocks of ice remained isolated amongst the newly deposited sediments, forming deep hollows known as kettle holes as they eventually melted. The best examples of valleys eroded by meltwater rivers around Syöte are at Portinkuru Gorge and Vattukuru – the Raspberry Ravine – where the Vattukuru Nature Trail runs through a striking overspill channel.

The bare soil exposed by the ice sheet and the Anclyus Lake was soon colonised by vegetation after the end of the ice age. Organic material gradually accumulated in the soil. In drier areas, rapid decomposition ensured that the organic layer remained thin, but in damper places peat began to form where decomposition was slow. The region's forests and boggy mires began to form.

The Kellarilampi Nature Trail is 900 metres long. Three notice boards along the trail describe how the area's mires, kettle hole lakes and eskers have been formed. A shelter by the lake is a good spot for a break. In summer the trail is suitable for the disabled.

The illustration below shows how Syöte would have appeared just after the ice had receded at the end of the ice age, during the Anclyus Lake stage, almost 10,000 years ago. A special quiz at the end of this booklet tests your knowledge of the area's geology and nature.

Welcome to Kellarilampi!





