

two led the writer, some years since, to propose the name "Dannemora formation," from Dannemora mountain in Clinton county for these gneisses of the northern Adirondacks, the name to serve unless equivalency with the Ottawa gneiss can be shown, in which case that name should be adopted. Since, however, possible confusion with a noted Scandinavian locality may result, the name Saranac formation is suggested to replace it. The rocks are well exposed along the river of that name, in Clinton county, and in its near vicinity.

Anorthosite. This was the first of the somewhat later, great igneous intrusions which invaded the rocks already described from below, breaking them up, pushing them aside or raising them on its back, and inclosing great masses of them in many places. The fact that it has not been so excessively metamorphosed as the previous rocks is indicative that it is considerably younger than they, as is the further fact that its character indicates that it solidified at considerable depth, and that therefore the Grenville sediments must have become buried under a considerable thickness of later deposits, since worn away, before the intrusion took place.

The Adirondack anorthosite is found principally in one great connected mass, seemingly one single intrusion, though this may not be the case, occupying a great area in Essex and southern Franklin counties, of rudely triangular shape with indented base and blunted apex, the base at the north. The base is some 55 miles across, and the height of the triangle some 40 miles, the area of country involved being some 1200 square miles at a rude approximation. Occasional small areas of other rocks, in part Grenville or doubtful gneisses, in part later intrusives, are found within it, but, mostly, it extends unbroken throughout. The inclusions, or masses, of various gneisses are most numerous near the borders of the mass, and some great tongues of the outlying rocks project into it. There are also a few outlying masses, mostly of very small size, the Rand hill mass in Clinton county, which has an area of some 4 square miles, being perhaps as large as any. These may represent independent smaller intrusions, but