

Herkimer and Onondaga counties and on to Erie county. The outcome of Mr Hartnagel's work has been to demonstrate the continuity of this apparently feeble element in the rock succession and to indicate its significance as a closing phase of the Siluric formation and fauna in the State of New York. Originally brought into the nomenclature of the science as the Coral-line limestone and believed to have a purely local significance in the Helderberg region and the adjoining districts westward, it is now found to have been notably underestimated in its continuity and extent.

**Paleontology and stratigraphy of the slate belt of eastern New York.** Mr Ruedemann, who has been concerned with the problems presented by the obscure and somewhat complicated structure of this region, has continued his investigations, giving special attention to the region about Granville, for the purpose of reexamining the localities from which Messrs Walcott, Dale and Prindle obtained paleontologic evidence during their study of the region. The exploitation of the graptolite faunas of these rocks, which here, as in other parts of the world, have been found of material importance for the correlation of these with distant formations, has led to the restudy of the structure of Mt Moreno near Hudson which, previously known by an excellent exposure of the Normanskill graptolite shale, has become still more interesting by the discovery of the uppermost zone of the Phyllograptus shale before known in New York only from the Deep kill section of Rensselaer county. All the data now obtainable bearing on the composition of these graptolite zones and the correlation of these geologic formations with those of remote regions of the world have been brought together in the form of a monograph of the graptolites of the older New York rocks, and this is now in press.

**Beekmantown and Chazy formations of the Lake Champlain basin.** In continuing an examination of the lower faunas of this region, which has been carried on during several seasons, the assistant paleontologist spent the greater part of the field season. The real import of these faunas in the paleontology of New York