tially of a greater development of the juniper mats, which unite to form a complete unbroken carpet, together with a greater development, both in number and size, of the white spruce trees, to which are added some deciduous trees and shrubs. And where the hollows dip lower than usual, and towards the upland in places, this forest merges to alder and cedar swamp.

We consider first the woods carpet. Morphologically it is a direct development of the juniper mats of the outer zones, though but little juniper, aside from occasional erect shoots, is left. With it persist some of its earlier associates, the rock cranberry, three-leaved cinquefoil, some grasses, the bearberry, and the reindeer lichen, varying in their respective development according to situation. To these are now added dwarf plants of the bunchberry, Cornus canadensis, the twin flower, Linnaea borealis americana, Pyrola chlorantha, the pipsissewa, Chimaphila umbellata, and an abundant brown moss, which has been identified for me by Mr. A. J. Grout as Aulacomnium palustre, a typical swamp moss. Upon this carpet develop a few larger forms, especially the abundant wild sarsaparilla, Aralia nudicaulis, the gooseberry, Ribes oxyacanthoides, the dwarf raspberry, Rubus triflorus, with others less conspicuous.

We consider next the trees of these woods. First in importance and size, far surpassing all others in both respects, is the white spruce. It attains a height of perhaps 7.5^m, a diameter near the ground of perhaps 45^{cm}, and it exhibits over 100 annual rings, though perhaps some may be much older than those I counted, which were cut by the residents for wood. The next to appear is the balsam fir, Abies balsamea, becoming somewhat abundant and characterized by a spruce-like arrangement of its leaves all around the stems. Then follow the red maple, Acer rubrum, the aspen, Populus tremuloides, the paper birch, Betula alba papyrijera (in very small trees however), and the mountain ash, Pyrus americana; while the common undershrubs are the red dogwood, Cornus stolonijera, and the black alder, Ilex verticillata. There are probably some others, but these I believe are all that are notable.

In especially low places, such as in certain hollows, and at the contact of plain and upland, the conditions verge towards those of