

strongly separated lithological subdivisions. Again, while the English and Welsh rocks have been much disturbed and even metamorphosed, those in the eastern part of the Baltic basin remain over wide tracts hardly altered from their original condition of level sheets of sand and clay.

In Scandinavia the Cambrian system lies with a strong unconformability on pre-Cambrian rocks. The so-called "Primordial zone" of this region appears to be everywhere characterized by uniformity of lithological composition as well as of fossil contents, consisting mainly of black shales with concretions or thin seams of fetid limestone. In Scania the following grouping of the Cambrian system has been made, the whole thickness of strata being about 400 Norwegian feet (120 metres).

3. Olenus group. About 200 feet of bituminous fissile alum-shales, with nodules and layers of fetid limestone. The following zones in descending order are noted by S. A. Tullberg—(k) zone with *Acerocare ecorne*, (i) *Dictyonema flabelliforme*, (h) *Cyclognathus mycropygus*, (g) *Peltura scarabwoides*, (f) *Eurycare camuricorne*, (e) *Parabolina spinulosa*, (d) *Ceratopyge* sp., (c) *Olenus* (the special zone of this genus of which it has many species), (b) *Leperditia* sp., (a) *Agnostus pisiformis*.

Professor Brögger has abbreviated this subdivision by making two chief zones, a higher with *Peltura*, *Cyclognathus*, etc., and a lower with *Olenus* (in the strict sense) *Parabolina*, *Eurycare*, etc.

2. Paradoxides group. About 160 feet of sandy shales, alum shales, with three bands of limestone, the lowest (1½ feet) known as the "Fragmentenkalk," the middle as the "Exsulanskalk," and the highest (2 to 3 feet) the "Andrarumskalk." Mr. Tullberg divides the group into the following zones in descending order, (m) *Agnostus lævigatus*, (l) *Paradoxides Forchhammeri*. (This is the horizon of the Andrarum limestone, which contains an abundant fauna, including many species of *Agnostus* and other trilobites. (k) *Agnostus Lundgreni*, (i) *Paradoxides Davidis*, (h) *Conocoryphe æqualis*, (g) *Agnostus rex*, (f) *Agnostus intermedius*, (e) *Microdiscus scanicus*, (d) *Conocoryphe exsulans*, (c) *Agnostus atavus*, (b) "Fragmentenkalk" with *Paradoxides ölandicus*, (a) Black alum-shale with *Lingulella*, *Acrotreta*, *Obolella*, etc.