

upon the composition, temperature and pressure prevailing during the time of cooling of the magma, as well as upon the alterations in these conditions, and finally upon the action of special "agents minéralisateurs." As the crystallization intervals of the different minerals separating out from the magma frequently overlap for considerable distances, the order, as every mineralogist knows, is not an absolute one, but only determined within certain limits; it is only right to mention here also that the order of crystallization has been determined mainly with regard to the principal minerals and in a less degree for a number of accessory minerals produced by special processes, although for many of the latter the period of formation is pretty sharply defined.

For the nepheline syenite pegmatite veins of the boundary zone of the Langesundfjord it was evidenced above, that the order of crystallization over large areas is, within certain limits, a definite one, and the same as in the corresponding boundary rock of the Laugenthal which is undoubtedly eruptive. Similarly, for example, for the genuine granitite pegmatite veins (with black biotite) the crystallization order is in all probability a definite one and corresponds to that of the massive granitite.

This circumstance is also one of the strongest arguments for the eruptive genesis of the genuine pegmatitic veins; it can as little be accidental for the latter as for the rocks which have certainly crystallized out from a magma, and must in both cases be explained in similar ways.

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