

Apatite from a New Locality in Eastern Cornwall.

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IN the last Number of the Society's Journal I described some crystals of apatite (francolite variety) from St. Just district of Western Cornwall; I have now to bring to the notice of the members some very fine beautiful crystals of this same mineral which I have received from Mr. Henson.

In point of beauty and lustre they far surpass any of the apatites that have yet been found in England.

The crystals are in the form of hexagonal prisms, doubly terminated with basal planes and narrow pyramid planes; colour pale bluish green, translucent with strong vitreous lustre.

They vary in size from a pin's head to half-an-inch across.

The following forms are nearly always present:— o (111) well developed, i (231), x (120), z ($1\bar{3}1$) narrow r (100), small r , ($\bar{1}22$), smaller α ($10\bar{1}$) well developed, b ($2\bar{1}\bar{1}$) smaller; the two latter planes deeply striated parallel to their intersection with one another.

The crystals are deposited in voynes in the granite associated with white felspar, dark brown tourmaline, gilbertite, smoky quartz, silvery mica and pseudomorphs of gilbertite after quartz. These so-called pseudomorphs by incrustation are nothing more than the remains of the coating of gilbertite on crystals of quartz, which have been afterwards either dissolved or broken away.

These crystals of apatite in their development resemble those fine dark blue crystals found at St. Michael's Mount more than fifty years ago, but in colour are closer to the Ehrenfriedersdorf, and in lustre to those brilliant crystals from Knappenwand, Untersulzbachthal, Salzburg.

The association of brown tourmaline with gilbertite I have not seen before in Cornwall. In other respects the matrix is very similar to that from Stenna Gwyn, near St. Austell.