

*Celestine from a New Locality in Gloucestershire.*

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THE great similarity which exists in the crystallographic and optical constants, cleavage, and absence of twinning in the isomorphous rhombic sulphates is especially marked in Barytes and Celestine, but though the combination of forms is sometimes the same, yet up to the present time a marked individuality has been perceived in Celestine crystals which has made it easy to recognise the one mineral from the other.

The crystals of Celestine from near Bristol in the red marl, those associated with sulphur from Sicily, or the large flat more or less bluish tabular crystals from Strontian Island, Lake Erie, are varieties which are seldom if ever mistaken for Barytes.

But some fine large semi-transparent white crystals that have come into the hands of Mr. Henson, and which were quite lately found in Gloucestershire, resemble so closely in form crystals of Barytes from Dufton, Westmoreland, that it was only by measurement I was able to be sure of their identity. The following forms are present:—*c* (001) large, *o* (101), *d* (012) well developed narrow, *g* (013), and small *m* (110).

Another habit is also found on crystals from the same place; *c* and *m* largely developed with small *o* and *d*, closely resembling except in colour those crystals of Barytes from Frizzington, Whitehaven, Cumberland.

I believe I may further state that these last crystals are the largest by far that have yet been found of Celestine in this country, and in size remind one of the Lake Erie crystals.