To Mr. Emory

Agamenticus.

Rules & directions to which the heliotropers of the Coast Survey should strictly conform.

1. To be at the station within ten minutes after sunrise, to prepare at once to show & to show until 10 A.M.. To be again at the station at 2½ P.M. & show until sun set. On Sundays to show from sunrise until 10 A.M. only & not in the afternoon.

2. To keep the sun in the centre, turning the mirror at least as often as once in two minutes.

On windy days to watch that the sun be not thrown out by the motion of mirror, or heliotrope, or stand.

3. To look at the station towards which the instrument is directed occasionally when the Gauss heliotrope is used with the other heliotropes each time the mirror is moved.

4. Before beginning to show to examine the adjustment of the heliotrope and to make sure that when the sun is in the station is seen.

5. When a heliotrope is seen from camp it is a sign that the heliotroper is not seen

In that case a little motion right or left, up or down of the heliotrope may cause it to be seen. The heliotroper should try this. If the heliotrope at camp is still seen the heliotroper is not seen

6. A range for direction & height should be found by a near object or made by putting up a pole with braces & cutting it off to the right height some day when the camp is seen.

The height varies and the heliotroper can judge of this.