

Sept 8. 11° 30'

Spent 2 hours on 1 terminal on 2 leaves with ^{with} ~~with~~ ^{small red spot}

at 88° 5' 40" - ^{mark in} ~~mark in~~ ^{greenish} ~~mark in~~ ^{at top}

top of water - also appears on 4 other leaves.

The ^{spotted} ~~spotted~~ ^{leaf} ~~leaf~~ ^{is} ~~is~~ ^{on} ~~on~~ ^{left} ~~left~~ ^{side} ~~side~~ ^{viewed} ~~viewed~~ ^{from} ~~from~~ ^{below.}

[Sept 20 fine leaves: Sept 21 on 1/2 leaf, on 1/2
mark the faintest shade of yellow.

Sept 25 The same on 1/2 leaf the same to be seen
especially the spotted one on following 2 more
translucent when water lay.

Sept 26 now spotted 1/2 yellow, the shade of green
is almost gone in 1/2 -

Sept. 27 1/2 on 1/2 of spotted leaves, to which
quite half yellow, all to change to
very of a greenish yellow, with to ground
more of the tint than in the
green parts

Oct 1. The content is now 1/2 pale between
leaves on 1/2 with water & 5 others

Sept 25th 5th 35th new trip, young leaf: at 12^o 30'
 not yet out: at 1^o P. M. large green
 leaf no longer flattened.

Sept 26th 4th P. M. I suspect that 1st visit had
 28th 3rd A. M. green entirely withered, & on transverse
 branch of transverse light. - In a few hours
 the leaflet became curled.

Oct 1. The leaflets fall off, curled & dry
 but not brown when withered, but
 all had long enough.

tion of gadolinite and samarskite, has always laid great stress on the atomic weights. As soon as a substance shows an atomic weight higher than that of the other members of the same group (for example, decipin and ytterbin) he regards the existence of the new element as established. When, however, its atomic weight comes between those of other members of the same series (for example, philippin compared with yttria and terbic), experiments were continued until the chemist was convinced that the body under investigation was not a mere case of a mixture of others. In such cases a study of the physical characters was of value. On these grounds the author regards as established the existence of ytterbium, decipium, and philippium. Of scandium he says nothing, as he has not yet obtained it. Of cerium he says