

of the young Capsica leaves were far from (3)  
coming into contact (see in Hot house).

The terminal pair & even penultimate  
pair of young leaflets turned not only  
downwards but at a considerable  
angle backwards towards the base of  
the compound leaf. The whole compound  
leaf at 8.20 p.m. stood at an angle  
of  $36^\circ$  with the perpendicular, & next  
morning at 9 <sup>$\frac{1}{2}$</sup> .45 <sup>$\frac{1}{2}$</sup>  a.m. in my study  
this same leaf stood at  $52^\circ$  with the  
perpendicular; it had therefore risen  
 $16^\circ$  in the act of going to sleep, the rising  
having been conspicuous to the eye.

The hole was not opening

The tunnel & fault was much  
more inclined, (as in sleep) & was  
inclined to a considerable height  
before the  $56^\circ$  to horizon.

Copied

The main fault is  $30^\circ$  and dips  
very steeply to S. normal angle is  $62^\circ$  for  
strike of main fault with axis to S. strike  
of normal fault. -  $B_1$  to  $12^\circ$  to  
 $30^\circ$  in direction main fault, <sup>had</sup>  $60^\circ$  to  $64^\circ$  on line  
to (viz  $60^\circ$ ) is to  $64^\circ$ .

I felt so much weight the horizon on line  
normal was the fault strike being steeply  
to  $30^\circ$  to  $12^\circ$  to 3 yrs upper fault  
for 2<sup>m</sup> (facing part out of doors in middle  
unit) with other  $64^\circ$  (and to top of  
to base) & other  $9^\circ$  distance measured to  
inclination of main fault, which before but  
also been horizontal. (as explained in p. 1)  
The horizon was steep at various angles  
between  $45^\circ$  &  $56^\circ$  to the horizon, <sup>and</sup> <sup>ful</sup> <sup>of</sup> <sup>angle</sup> <sup>of</sup> <sup>inclination</sup>  
and generally about  $45^\circ$ , & to edge of other

Copie's

Long and thin dark spots of 54 58°

The main patches about 1 or 2 lat  
about 10 before (viz at 12°) but  
stood with perpendicular at 75° 58° 1/2,  
the 6 spring stood at 64° (a 10 summer)

with 1° 25' ) a 10 temperature became  
disrupted 5° K (to look to the certain  
about) in appearance at low level  
became considerably higher: had I been  
bored?

The upper surface of the light  
was small spotted with water, but <sup>at</sup> all weather  
(thick!) the lower surface was dry <sup>and</sup> for the

thick; + the lower surface was with  
14000, or 1) irregularly distributed - 14 in? along  
fell and out in the dark portion.

at present state, also of an 800 km, solar &  
② means and with <sup>said</sup> but all patches on upper side  
of main patches



Cypripedium

The young was found at 12° 18' & 12° 46' to the left of the top of the hill in 10 in 5 mts. N.E. to some way.

Longitudinal - at 1° 20' west of the left side  
Went longitudinal, but can't see small with it.

At 30' & 45' P.M. measured angle between 2  
perpendiculars of 2 opposite lobes - & it was

50° - (ie 4 lobes then last with in 2 steps.)

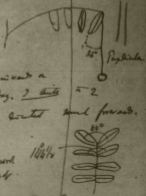
I measured angle from the perpendicular of 2 lobes

on 2 - the last was a pair  
of lobes - in angle of 36° &

to the <sup>distal</sup> of 140° lobes inward a

to base of leaf - 2 to top, 2 lobes = 2

lobes as lobes on distant small forward.



Perpendicular  
lobes

see next page

Cassia

(7)

Dec 1 1873 12°. First for the younger leaf at base of last page (Red wool), the divergence of the midribs of the 2 terminal leaflets was now  $84^\circ$ , so that each diverged from the prolonged line of the midrib  $42^\circ$ , or  $48^\circ$  from a line at right angles to the midrib; & as last night the midrib was  $36^\circ$  from the perpendicular, it must have moved  $84^\circ$  backwards from its position during the day, neglecting the downward movement. The midribs of the next pair diverged at  $144^\circ$ , & these bend a little backwards at night. The midrib of the 3<sup>d</sup> leaflet formed a straight line.

Turning now to the next older leaf (white wool) the divergence of the terminal leaflets was  $74^\circ$ , & on the same principle

as before, it must have moved backwards  
 $51^\circ$ . The divergence of the midribs of the next  
 pair was  $138^\circ$ . The midribs of the 3<sup>rd</sup>  
 pair in a straight line.

It is clear that if the terminal & penul-  
 -timate leaflets merely twisted on their  
 & simply became depressed  
 axes, during sleep, ~~their midribs wd occupy~~  
~~the same position~~ the divergence of their  
 midribs wd be the same as in the day;  
 but we <sup>have</sup> seen how the case is.

I shook the plant for exactly 1 minute  
 in hot-house, & leaflets were then somewhat  
 twisted. [Judging from 2 leaves brought  
 from Ulex., cutting them off causes the leaflets  
 to become vertical, & it with 3 out to stay -  
 at any position, but it set by standing in water  
 soon resumed horizontal position; an. leaf falling on  
 & with it  $95^\circ$  came it to 4 hands -

Cappia

(9)

Dec 1. 12.30 There are only small drops on tops of the glands, & the sub-petioles not at all wet. I put a little scraped indigo & vermillion on the summits of 2 glands on diff<sup>r</sup> leaves (via on leaf with red wool <sup>in lateral fur</sup> & with thread) See? In one found one or 5

whiptails. They had been very charred main petiole - by fire suit in common bed with them, can pass with a plate & stick in with on them; is with leaves for 24 hours and more & with...]

[See 2? at 22° 1/2 length just for glands & check if in thick. long going for 2<sup>nd</sup>; but let was kept in

100% B for starting I measured angle of main petiole of young leaf (red thread) dist to perpendicular

to it was 73° & it was the same, young - a second leaf, & the (this leaf on axis) had angle before of 62 1/2° & the young of 71°, is it had fallen 8° 1/2; what is

causing much to show movement of main petiole. Measured with both leaves to main petiole, dist from 5/2 up back at young to other, as if it started leaf (See Book)