

May *manubato*,

Wednesday 2  
very windy  
cloudy

Busy writing, computing, studying. -  
So cloudy to observe tonight. - Today I received a  
photograph of my <sup>8 1/2"</sup> reflector which I was to have had  
for my work here, but not being ordered in time  
could not be finished (some additions - the telescope itself  
was "on hand"). I am most anxious to swap  
the heavens with it.

Thursday 3  
pleasantly

Busy writing, studying. - In the afternoon at Dur-  
mond's request I visited with him a clay deposit in Peter-  
suis creek in reference to its value for fire brick. There is  
not much of it & besides it is too shaly.

The night was as good as could be desired. Besides getting  
transits I attempted to observe the phenomena of Jupiter's sat-  
ellite II - Transit ingress - shadow eq. & Transit eq. -  
but the first two were totally invisible and the last one  
just became visible as a "waal" on the limb <sup>ten</sup> min-  
utes after its actual transit (as given by the ephemeris)  
and it was not till fully 20 minutes after such transit

+ Jupiter's limb  
was "boiling", which  
added to the diffi-  
culty

that the satellite was distinctly seen as separated from  
the planet. Hence this observation is totally useless  
for determining longitude. My limited experience with  
Jupiter (using 3 1/2" reflector) is that all phenomena  
save eclipses have or are of next to <sup>no</sup> value at all;  
and even eclipses are at best but approximate.

Transits of the moon and neighboring stars are in my  
opinion the most accurate, the easiest obtained & hence  
the most desirable method of obtaining the longitude  
where the electric telegraph is not available.

Friday 4  
windy  
warm

Busy studying etc. - The night was fine & I began my last  
night's work. About midnight Dr. Ferrero & Durmond visited  
me; I showed the doctor the heavens with the equatorial  
transit. After obtaining transits for time I immediately  
commenced packing the transit & tripod. - About 4 A.M.