

roads, and very careful attention is necessary to see whether the tongues are in active use.

Now, let us look at the Graptas and Vanessas. Dr. Longstaff quotes the following from Parker (Mark Anniv. Vol., p. 453-469). "*Vanessa antiopa* and the Graptas settle with their wings full expanded and adjust their position so that the axis of the body is parallel to the sun's rays with head turned away from the sun."

One spring afternoon I was in a grove near Montreal and noticed many insects about a large maple tree, whose sap was flowing freely from wounds made by real estate subdivision "artists." On the western side in the sunlight were several *Vanessa antiopa* and one *Grapta progne* all settled with wings wide open, while on the shady side were a larger number of *V. antiopa* and three or four *Grapta j-album* all with their wings closed over their backs.

On another occasion, this time in August, sugared patches on my fences were attractive to butterflies. A post on the east side was in the full glare of the sun at 2 o'clock, and an *antiopa* and a *Pyrameis atalanta* kept settling on the sweetened place—curiously the *antiopa* always approached the patch from above and settled head downwards, while *atalanta* flew upwards and settled head up, and both kept the wings expanded. On the opposite side of the garden, which, of course, was in the shade, another *antiopa* settled head up and kept the wings tightly closed.

While on my holidays a couple of years ago at North Hero, Vermont, a capital chance was afforded to watch a male *Grapta comma*. It was a particularly hot, cloudless day, and the only comfortable place was in the lake, and the whole morning was spent at the beach. When we beached our boat, the butterfly was there to meet us, just fluttering a little way aside to let us pass across the beach to disrobe. After a lengthy dip, I had to wait a considerable time before my son could be persuaded that he had enough, and, for want of something better to do, I lay down in the shade of the boat and watched the butterfly, which continued to fly about, always within a radius of perhaps 10 yards, and this is what he did:—

1st—Settled on the sand, head towards the north, closed wings over back, and inclined at an angle of about 60° with the ground, the tips of wings towards the west.