

1881. May 28-June 25. Las Potrerillas (El Banco) (about 2500 feet). Similar ground, not far from Nance Bonito.

June 26-July 13. David.

July 14-Aug. 1. Finca La Elvira. Similar to Nance Bonito.

Aug. 2-8. Las Potrerillas.

Aug. 9-11. Boquete (3550 feet). South-eastern slope of the Volcan de Chiriqui.

Aug. 12-20. La Caldera (1500 feet). Savanna region, with scattered trees. On old route from David to Atlantic coast, practical on foot only, but rarely used, all provisions having to be carried.

Aug. 21-Sept. 27. Las Potrerillas.

Sept. 28-Oct. 20. David.

Oct. 21-Nov. 28. Bugaba (1000 feet). Fine forests here\*, extending into Costa Rica, eastward and southward savannas, with scattered trees. Rio Ascaria and Rio Chiriqui Viejo descending through forest-country. Sugar-cane and coffee cultivated to a small extent. The place of residence of the brothers Trötsch and other collectors formerly employed by Staudinger, the well-known Lepidopterist.

Nov. 29. Jugales. Resting-place on way up to the Potrero del Volcan.

Nov. 30-Dec. 10. Potrero del Volcan (4000 feet). Road from about 1000 feet above Bugaba rapidly ascending through dense forest. Savannas up to 6000 feet, to the precipitous western slope of the Volcan de Chiriqui (about 11,000 feet), and to the abruptly descending banks of the Rio Chiriqui Viejo. Dense forests westward and southward, in which peccary are not rare, and jaguars, &c., occur. Large numbers of cattle for the Panama market pastured on these savannas. Monkeys (*Ateles* sp.) and peccary (*Dicotyles labiatus*) sometimes shot for food by the 'vaqueros.' Uninhabited district.

Dec. 11, 12. Bugaba.

Dec. 13-26. David.

Dec. 27-31. } Bugaba.

1882. Jan. 1-Feb. 2. }

Feb. 3-5. Camaron (1750 feet). Milpas (maize-fields) in forest-clearings, on Costa Rica road.

Feb. 6-March 15. Bugaba.

March 16-21. Las Potrerillas. Country in a smoky haze at this season, due to the general burning of the undergrowth. Fires dangerous to the thatched houses, owing to the strong 'norther.'s.

March 22-April 10. Bugaba.

April 11-13. David.

April 14-18. Bugaba.

April 19-29. Potrero del Volcan. Second visit, more

productive than first. Many large Lamellicorn-beetles (*Plusiotis*, various Dynastids, &c.) found floating in the water of the large shallow lagoons in the forest, on the banks of which numerous trees frequented by the insects were in flower. The short-tailed 'quezal' (*Pharomacrus costaricensis*) seen at about 5500 feet.

1882. April 30-May 30. Bugaba. A very good locality at this season, the commencement of the rains. New clearings in forest—made to plant rice, maize, or tobacco—productive in Coleoptera, Rhynchota, &c. A large number of interesting Lepidoptera Rhopalocera occur in the district, including *Morpho cypris* and other species of the genus. A marmoset, *Chrysomys oerstedii*, occasionally seen in numbers on the outer limits of the forest; also an occasional peccary (*Dicotyles tapaju*).

May 30-June 5. Las Potrerillas.

June 6-8. Slope of the Volcan de Chiriqui (5500 feet). Staying in hut erected by Swiss orchid collectors on the very steep forest-clad slope. Ascended to 8000 feet, by tracks made by tapirs through the dense undergrowth of bamboo, &c., to summit of ridge. Further progress stopped by an immense precipitous ravine, beyond which the upper part of the volcano could be clearly seen through the trees. The vegetation on the summit consisted apparently of low bushes (? *Vaccinium*). No water could be found near hut and a longer stay not possible. Some interesting new Lampyridæ, Hispidæ, and other Coleoptera found in these places.

June 9-12. Las Potrerillas.

June 13, 14. Finca Nance Bonito.

June 15-July 3. Bugaba.

July 4. Jugales.

July 5-7. Potrero del Volcan.

July 18-Aug. 15. Bugaba.

Aug. 16-19. David.

Aug. 20-28. Bugaba.

Aug. 29, 30. Divala (Vivala) (350 feet). Savannas, covered in places with a short prickly *Mimosa*, the Rio Chiriqui Viejo adjacent. Tropical forest, with many lofty palms, westward. A 'road' into Costa Rica passes this place, not many miles from the Pacific. Eastward, on the savanna, is the old capital of the district, Alanje. Abandoned saw-mill noticed on one of the streams.

Aug. 31. Mosque (700 feet).

Sept. 1-Nov. 30. Bugaba.

Dec. 1-3. David.

Dec. 4-27. Bugaba. Garrapatas (ticks) swarming in the bush during dry season, necessitating a frequent change of clothing. Boas occasionally met with. Insects scarce, except near water, butterflies mostly

\* Probably all destroyed by this time.