



LVI. Meteorological observations during a residence in Colombia between the years 1820 and 1830

Colonel Richard Wright

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LVI. *Meteorological Observations during a Residence in Colombia between the Years 1820 and 1830. By Colonel RICHARD WRIGHT, Governor of the Province of Loxa, Confidential Agent of the Republic of the Equator, &c. &c.*

[Continued from p. 304.]

Ascent from the Coast to the Table Lands of Quito.

Date.	Thermo- meter.	Time.	Elevation.	Remarks.
1825. May 1.	79°	7 a.m.	0	Savaneta.
2.	83	2 p.m.	B. W.	Fair.
3.	79	7 a.m.	212°.	Id.
„	86.5	2 p.m.		
4.	78	7 a.m.		Rain.
„	82	2 p.m.		
5.	83	2 p.m.		Showery.
6.	71	7 a.m.	3025 ft.	Ascent of Angas.
„	75	2 p.m.	B.W.207.	
10.	68	7 a.m.	id.	Tambo de Jorge.
11.	56	7 a.m.	7865 ft.	Camino Real.—Showery.
12.	59	8 a.m.	B.W.199.	San Miguel.
13.	60	8 a.m.	Fair.

Town of Guaranda. Lat. 1° 37' S. Foot of Chimborazo.

15.	54	6 a.m.	9075 ft.	Cloudy.
16.	59	2 p.m.	B.W.197.	
17.	56	6 a.m.		Fair.
„	64	2 p.m.		
18.	54	6 a.m.		Id.
„	64	2 p.m.		
19.	54	7 a.m.		Id.
20, 21.	} 65	2 p.m.		
22.	} 53	7 a.m.		Cloudy.
23.	54	7 a.m.		Clear.
24.	62	2 p.m.		
25.	54	7 a.m.		Cloudy with <i>Parametos</i> , or
to 28.	60	2 p.m.		mountain mists. Wind S.
June 1.	58	7 a.m.		Fair.
„	63	2 p.m.		
2.	56	7 a.m.		Showers in the evening.
3.	63	2 p.m.		
„	56	7 a.m.		Fair.
„	65	2 p.m.		

TABLE continued.

Date.	Thermo- meter.	Time.	Elevation.	Remarks.
1825. June 4.	56°	7 a.m.	9075 ft.	Cloudy and misty.
5.	63	2 p.m.		Rain.
12.	56	7 a.m.		Fair.
to 21.	64	2 p.m.		
22.	57	7 a.m.		Fair with wind.
"	65	2 p.m.		
34 days 63°·07 max. } Med. 59°·11. 55°·15 min.				

Village of Cimiatic, on the eastern slope of Chimborazo.

May 30.	55	7 a.m.	11,495 ft.	Fair.
"	57	4 p.m.	B. W.	
31.	55	7 a.m.	193°.	

Guaranda.

1828. Dec. 6.	58	8 a.m.	Fair.
”	59	11	
”	60·5	2 p.m.	
”	59	5½	
”	58	9	
Mean 58°·9.			Fair. Sun 100° reflected heat.
7.	57	7½ a.m.	
”	58	10	
”	60·5	3 p.m.	
Mean 58°·5.			
8.	56	6 a.m.	Id.
”	60	2 p.m.	
”	58·25	mean.	
3 days. Mean 58°·55. Of 37 days 58°·83.			

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Ascent from the Table-land of Riobamba to the Mine of Condorasto, on the Cordillera of El Altar.

Date.	Time.	Thermo- meter.	Remarks.	Elevation.	
1825. Sept. 20.	8 a.m.	51°0	Cloudy.	9377 ft.	Riobamba.
21.	2 p.m.	58°0	Wind.	B.W. 196½°	
22.	8 a.m.	51°0	Clear.		
„	2 p.m.	60°0			
26.	8 a.m.	48°0	Fair.	11,797 ft. B.W. 192½°	Rio Blanco.
27.	8 a.m.	42°0	Misty.	13,007 ft. B.W. 190½°	Los Cherillos.
„	12	45°0	Misty.	14,520 ft. B.W. 188.	Mine of Condor- asto.

*Town of Llactacunga. Lat. 55' 14" S.
Table-land of Quito.*

Date.	Thermo- meter.	Time.	Elevation.	Remarks.
1826. Jan. 25.	56°0	6 a.m.	10,285 ft.	Fair. Id.
26.	61°0	3 p.m.	B. W.	
27.	56°0	6 a.m.	195°.	
„	60°5	3 p.m.		
28.	56°0	6 a.m.		Rain.
„	62°0	3 p.m.		Fair.
29.	57°0	6 a.m.		
„	61°0	3 p.m.		Cloudy.
30.	60°0	3 p.m.		
31.	54°0	6 a.m.		Fair.
„	60°0	3 p.m.		
Feb. 1.	56°0	6 a.m.		Id.
2.	61°0	3 p.m.		Id.
3, 4, 5.	60°0	2 p.m.		Id.
6, 7, 8.	58°0	2 p.m.		
15 days. Max. 60°·01 Min. 55°·85 } Med. 57°·93.				

City of Quito. Lat. 13' 27" S.

1825. July 10.	57°0	7 a.m.	9537 ft.	Fair.
11.	61°0	3 p.m.	B. W.	Id.
12.	57°0	7 a.m.	196°¼.	
13.	63°0	3 p.m.		

TABLE continued.

Date.	Thermo- meter.	Time.	Elevation.	Remarks.
1825.				
July 14.	58°0	7 a.m.	0	Fair.
"	64·0	3 p.m.		
15.	58·0	7 a.m.		Id.
16.	67·0	3 p.m.		
17.	57·0	7 a.m.		Id.
18.	64·0	3 p.m.		
19.	60·0	7 a.m.		Id.
20.	67·0	3 p.m.		
21.	60·0	7 a.m.		Id.
"	60·0	3 p.m.		
22.	60·0	7 a.m.		Id.
23.	65·0	3 p.m.		
24.	60·0	7 a.m.		Id.
"	67·0	3 p.m.		
25.	62·0	7 a.m.		Id.
"	66·0	3 p.m.		
26.	60·0	7 a.m.		Id.
27.	64·0	3 p.m.		
28.	57·0	7 a.m.		Cloudy.
"	62·0	3 p.m.		
29.	58·0	7 a.m.		Fair.
30.	64·0	3 p.m.		
31.	60·0	7 a.m.		Id.
"	67·0	3 p.m.		
22 days 64°·78 max. } 61°·66 med. 58·54 min. }				
Aug. 1.	60·0	7 a.m.		Thunder. Cloudy.
"	67·0	3 p.m.		
2.	58·0	7 a.m.		Cloudy.
"	66·0	3 p.m.		
3.	60·0	7 a.m.		Id.
4.	67·0	3 p.m.		
5.	60·0	7 a.m.		Id.
"	66·0	3 p.m.		
6.	59·0	7 a.m.		Id.
"	68·0	3 p.m.		
7.	61·0	7 a.m.		Id.
"	67·0	3 p.m.		
8.	63·0	7 a.m.		Id.
"	67·0	3 p.m.		
10.	59·0	6 a.m.		Id.
"	64·0	2 p.m.		
11.	59·0	6 a.m.		Id.
"	63·0	2 p.m.		
12.	58·0	6 a.m.	Id.	
"	62·5	2 p.m.		

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TABLE continued.

Date.	Thermo- meter.	Time.	Elevation.	Remarks.
1825.				
Sept. 1.	59°0	6 a.m.		Fair.
2.	65°0	2 p.m.		
3.	60°0	6 a.m.		Id.
„	65°0	2 p.m.		
4.	59°0	6 a.m.		Id.
„	64°5	2 p.m.		
5.	59°5	6 a.m.		Id.
„	65°5	2 p.m.		
6.	57°5	6 a.m.		Id.
„	66°5	2 p.m.		
7.	57°0	6 a.m.		Id.
„	66°0	2 p.m.		
8.	60°5	6 a.m.		Id.
„	63°5	2 p.m.		
19 days 65°14 max. } 62°02 med. 58°93 min. }				
	Thermometer.			Remarks.
1825.				
October	62°23 max. } 59°11 med.			From the 11th rain; 6th shock of an earthquake 12° 25'; comet visible from the 2nd.
31 days.	56°00 min. }			
1826.				
February	63°3 max. } 60°66 med.			Showery and fair alternately.
17 days.	58°0 min. }			
March	62°73 max. } 60°22 med.			Showery all the month.
31 days.	57°71 min. }			
April	62°36 max. } 59°88 med.			Showery and storms; 5th, lightning struck the ho- spital of San Juan de Dios.
30 days.	57°4 min. }			
May	62°7 max. } 59°63 med.			Showers and fair alternately.
31 days.	57°16 min. }			
June	58°28 max. } 57°50 med.			Id.
25 days.	56°8 min. }			
August	64°75 max. } 60°87 med.			Fair with some showers.
25 days.	57°00 min. }			
Septemb.	63°88 max. } 61°51 med.			Storms in the afternoon, de- scend from Cotopaxi, low- ering the thermometer from 2° to 6°.
30 days.	59°14 min. }			

TABLE continued.

	Thermometer.		Remarks.		
1826. October 31 days.	62°·56 max. 57°·91 min.	} 60°·23 med.	Generally rain with storms of thunder.		
Novemb. 30 days.	63°·18 max. 57°·06 min.		} 60°·12 med.	Idem.	
Decemb. 31 days.	60°·42 max. 56°·17 min.	} 58°·56 med.		Rainy and foggy.	
14 months from July 1825 to December 1826. Mean 59°·97.					
Date.	Thermo- meter.	Time.	Leslie's Hygrom.	Time.	Remarks.
1827.					
Jan. 1.	54·0	6 a.m.	22·0	1 p.m.	Showery.
" 2.	60·0	2 p.m.	33·0	12	Cloudy.
" 3.	62·0	2 p.m.	44·0	12	Fair.
" 4.	56·0	6 a.m.	55·0	12	Id.
" 5.	64·0	2 p.m.	44·0	12	Id.
" 6.	65·0	2 p.m.	55·0	12	Fair. Rain at night.
" 7.	57·0	6 a.m.	55·0	12	Fair.
" 8.	65·0	2 p.m.	44·0	12	Fair. Rain at night.
" 9.	64·0	2 p.m.	46·7	12	Cloudy.
" 10.	55·0	6 a.m.	38·5	2 p.m.	Rain.
" 11.	62·5	2 p.m.	59·0	12	Fair. 85° in the sun.
" 12.	59·0	6 a.m.	71·5	1½ p.m.	Fair.
" 13.	63·0	2 p.m.	49·5	12	Cloudy.
" 14.	65·0	2 p.m.	55·0	12	Id.
" 15.	58·0	6 a.m.	60·5	1½ p.m.	Fair.
" 16.	67·0	2 p.m.	60·5	12	Id.
" 17.	66·0	6 a.m.	38·5	5 p.m.	Cloudy ; drops of rain.
" 18.	57·0	2 p.m.	48·5	12	Id.
" 19.	57·0	6 a.m.	38·6	6 p.m.	Show.
" 20.	65·0	2 p.m.	60·5	12	Fair.
" 21.	58·0	6 a.m.	27·5	5 p.m.	Rain.
" 22.	66·0	2 p.m.	38·0	12	Cloudy: rain at night.
" 23.	55·0	6 a.m.	22·0	12	Hail and thunder.
" 24.	65·0	2 p.m.	33·0	12	Cloudy.
" 25.	58·0	2 p.m.	16·0	1 p.m.	Rain.
" 26.	61·0	2 p.m.	33·0	1 p.m.	Cloudy and showers.
" 27.	62·0	2 p.m.	33·0	1 p.m.	Id.
" 28.	64·0	2 p.m.			
" 29.	56·0	6 a.m.			

TABLE continued.

Date.	Thermo- meter.	Time.	Leslie's Hygrom.	Time.	Remarks.
1827.					
Jan. 24.	62.0	2 p.m.	33.0	1 p.m.	Cloudy and Showers.
25.	57.0	6 a.m.	22.0	1 p.m.	Id.
"	61.0	2 p.m.			
26.	60.0	2 p.m.	27.5	1 p.m.	Id.
27.	55.0	6 a.m.	22.0	4 p.m.	Id.
"	60.0	2 p.m.			
28.	61.0	2 p.m.	22.0	12	Id.
30.	53.0	6 a.m.			
31.	63.0	2 p.m.	49.5	10 a.m.	Fair.
30 days 62°.87 max. } 59°.5 med. Hygrometer mean 40°.38. Var. 55°. 56.13 min.					
February 65°.86 max. } 61°.62 med. Hygrometer 57°.07. Var. 55°. 28 days. 57.38 min.					
Weather generally fine. The beginning of the month remarkably clear; all the snowy mountains of the horizon of Quito being visible.					
March 62°.42 max. } 59°.37 med. Hygrometer 35°.79. Var. 44°. 31 days. 56.63 min.					
Weather generally rainy and 'cloudy.					
April 64°.0 max. } 59°.36 med. Hygrometer 33°.55. Var. 55°. 24 days. 54.71 min.					
Weather as in the preceding month.					
Mean of four months } 59°.96. Hygrometer 41°.69. from January to April					
July to December 1826, } 59°.97. 14 months.....					
18 months; mean temperature of Quito 59°.96. July 1825 to April 1827. Hygrometer 4 months 41°.69.					

[To be continued.]

LVII. *Letter to the Editor of the Scientific Memoirs respecting a Paper on the Polarization of Heat, in the Sixth Number of that Journal. By JAMES D. FORBES, Esq., F.R.S.L. & E. Professor of Natural Philosophy in the University of Edinburgh.*

To Richard Taylor, Esq.

MY DEAR SIR,

Edinburgh, Oct. 15, 1839.

THE translation of Mr. Melloni's paper on the polarization of heat, part ii. which appeared lately in the sixth Number of the Scientific Memoirs, contains critical remarks on my experiments in almost every page. I have long hesi-