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MEXICAN CLIMATOLOGICAL DATA.

Through the kind cooperation of Señor Manuel E. Pastrana, Director of the Central Meteorologico-Magnetic Observatory, the monthly summaries of Mexican data are now communicated in manuscript, in advance of their publication in the Boletin Mensual. An abstract, translated into English measures, is here given, in continuation of the similar tables published in the MONTHLY WEATHER REVIEW since 1896. The barometric means have not been reduced to standard gravity, but this correction will be given at some future date when the pressures are published on our Chart IV.

Mexican data for January, 1899.

Stations.	Altitude.	Mean barometer.	Temperature.			Relative humidity.	Precipitation.	Prevailing direction.	
			Max.	Min.	Mean.			Wind.	Cloud.
	Feet.	*Inch.*	° *F.*	° *F.*	° *F.*	%	*Inch.*		
Culiacán Rosales (E. d. S.)	112	29.53	86.7	52 2	70.9	60	.....	ne.	ne.
Durango (Seminario)	6,243	24.04	79.7	27.7	53.8	49	.....	.....	sw.
Leon (Guanajuato)	5,931	24.30	76.3	32.4	56.3	58	0.06	n.	w.
Mazatlan	25	29.96	78.1	59.9	71.4	72	0.00	nw.	w.
Mexico (Obs. Cent.)	7,472	23.05	72.5	37.4	55.4	55	0.02	n.	w.
Morelia (Seminario)	6,401	23.98	76.8	41.0	58.1	63	0.09	sw.	w.
Puebla (Col. Cat.)	7,112	23.37	76.6	35.2	58.1	65	.....	ene.	sw.
Saltillo (Col. S. Juan)	5,399	24.78	69.4	32.5	50.0	68	2.29	s.	sw.
San Isidro (Hac. de Guanajuato)	.....	.....	68.9	50.9	.....	.....	T.	w.	.....
Silao	6,063	24.29	72.5	40.8	59.2	52	0.01	nw.	w.
Zacatecas	8,015	22.52	71.6	28.4	50.2	52	.....	e.	.....
Zapotlan	5,078	25.11	77.4	39.7	61.0	55	T.	se.	w.

CONTRIBUTIONS TO THE METEOROLOGY OF PANAMA.

By Gen. HENRY L. ABBOTT, dated Paris, February 8, 1900.

I send herewith in Table 1 the hourly temperatures and barometric pressures at Alhajuela on the Upper Chagres, as observed by the officers of the new Panama Canal Company, during October, November, and December, 1899. In Table 2 I give the hourly temperatures during the last six months of the year 1899 at La Boca, the new landing place of the Panama railroad, near Panama. These observations, with those already sent you for July, August, and September, 1899, (see MONTHLY WEATHER REVIEW, October, 1899, p. 463), as compared with similar data at Colon obtained by your own observer (see MONTHLY WEATHER REVIEW, May, 1899, pp. 201–3) give a very interesting and complete knowledge of this extraordinary climate. At Alhajuela the extreme range of the barometer was only about three-tenths of an inch in these six months, and the extreme range of the thermometer was only 30.5° Fahrenheit.

TABLE 1.

1899.	Temperatures.						Barometric pressures.					
	October.		November.		December.		October.		November.		December.	
	° *C.*	° *F.*	° *C.*	° *F.*	° *C.*	° *F.*	*Mm.*	*Ins.*	*Mm.*	*Ins.*	*Mm.*	*Ins.*
1 a.m.	23.8	74.9	24.4	75.9	23.3	73.9	760.5	29.94	759.5	29.90	760.0	29.92
2 a.m.	23.6	74.5	24.2	75.6	23.0	73.4	760.2	29.93	759.2	29.89	759.6	29.91
3 a.m.	23.4	74.1	24.1	75.3	22.8	73.0	760.0	29.92	759.1	29.88	759.5	29.90
4 a.m.	23.2	73.8	23.9	75.0	22.6	72.7	760.1	29.93	759.2	29.89	759.6	29.91
5 a.m.	23.1	73.5	23.8	74.9	22.4	72.4	760.4	29.94	759.4	29.90	759.8	29.91
6 a.m.	23.0	73.3	23.8	74.8	22.2	72.0	760.7	29.95	759.7	29.91	760.1	29.93
7 a.m.	23.8	74.8	24.5	76.1	22.5	72.5	761.0	29.96	760.1	29.92	760.5	29.94
8 a.m.	25.8	78.5	26.2	79.1	24.9	76.8	761.3	29.97	760.4	29.94	760.8	28.95
9 a.m.	28.2	82.8	28.0	82.4	28.0	82.4	761.6	29.98	760.6	29.94	760.9	29.96
10 a.m.	29.2	84.6	29.1	84.4	29.4	84.8	761.4	29.98	760.5	29.94	760.9	29.96
11 a.m.	30.2	86.2	29.8	85.6	30.2	86.3	761.0	29.96	760.0	29.92	760.5	29.94
Noon	30.2	86.3	30.1	86.3	30.5	87.0	760.6	29.94	759.4	29.90	759.9	29.92
1 p.m.	29.5	85.1	30.2	86.5	30.6	87.1	760.1	29.93	758.8	29.88	759.4	29.90
2 p.m.	29.1	84.3	29.9	85.8	30.4	86.8	759.7	29.91	758.4	29.86	759.0	29.88
3 p.m.	28.4	83.2	29.1	84.4	30.3	86.5	759.4	29.90	758.3	29.85	758.8	29.88
4 p.m.	27.6	81.8	28.2	82.8	29.7	85.4	759.4	29.90	758.4	29.86	758.9	29.88
5 p.m.	26.8	80.3	27.4	81.4	28.5	83.2	759.6	29.90	758.7	29.87	759.1	29.89
6 p.m.	26.2	79.2	26.6	79.9	27.0	80.6	759.9	29.92	759.0	29.88	759.5	29.90
7 p.m.	25.7	78.3	26.0	78.8	26.1	79.0	760.4	29.94	759.4	29.90	760.0	29.92
8 p.m.	25.3	77.5	25.6	78.1	25.2	77.4	760.8	29.95	759.8	29.92	760.4	29.94
9 p.m.	24.9	76.9	25.3	77.5	24.8	76.7	761.1	29.96	760.2	29.93	760.6	29.95
10 p.m.	24.6	76.3	25.0	77.0	24.3	75.7	761.2	29.97	760.3	29.93	760.7	29.95
11 p.m.	24.3	75.8	24.8	76.6	23.9	75.1	761.2	29.97	760.1	29.93	760.6	29.94
Midnight	24.1	75.4	24.5	76.2	23.6	74.5	760.9	29.96	759.8	29.92	760.2	29.93
Means	26.0	78.8	26.4	79.6	26.1	79.0	760.5	29.94	759.5	29.90	760.0	29.92
Maxima	34.4	93.9	33.0	91.4	33.0	91.4	763.0	30.04	763.1	30.04	763.5	30.06
Minima	21.9	71.4	22.5	72.5	18.9	66.0	757.8	29.84	756.0	29.76	757.0	29.80

NOTE.—The original temperatures and pressures were given to the hundredths, and the conversions agree therewith.

Reduction of observations made at Boca, near Panama, by the self-registering thermometer of M. Royer. Every day of these months is represented in these figures except six days in July.

TABLE 2.

Hours.	Temperatures.													
	July.		August.		September.		October.		November.		December.		Means.	
	° C.	° F.	° C.	° F.	° C.	° F.	° C.	° F.	° C.	° F.	° C.	° F.	° C.	° F.
1 a.m.	24.3	75.8	22.6	72.8	23.5	74.2	23.6	74.6	23.7	74.7	23.8	74.8	23.6	74.5
2 a.m.	24.1	75.3	22.4	72.3	23.2	73.8	23.3	73.9	23.5	74.2	23.3	74.0	23.3	73.9
3 a.m.	23.8	74.9	22.2	71.9	23.0	73.4	23.0	73.4	23.2	73.8	23.0	73.4	23.0	73.5
4 a.m.	23.6	74.6	22.0	71.5	22.8	73.0	22.7	72.9	23.0	73.4	22.6	72.7	22.8	73.0
5 a.m.	23.5	74.2	21.8	71.2	22.6	72.7	22.6	72.6	22.8	73.1	22.4	72.3	22.6	72.7
6 a.m.	23.3	73.9	21.6	71.0	22.5	72.4	22.4	72.3	22.6	72.8	22.1	71.8	22.4	72.4
7 a.m.	23.4	74.2	21.5	70.8	22.4	72.2	22.2	72.0	22.4	72.4	21.9	71.4	22.3	72.2
8 a.m.	24.3	75.7	21.7	71.1	22.9	73.2	22.4	72.3	22.6	72.7	21.9	71.4	22.6	72.7
9 a.m.	25.5	77.9	22.7	72.9	24.1	75.3	23.7	74.6	23.4	74.2	23.1	73.6	23.8	74.8
10 a.m.	26.8	80.3	24.1	75.3	25.2	77.4	24.6	76.3	24.6	76.4	24.8	76.6	25.0	77.0
11 a.m.	27.9	82.3	25.4	77.6	26.4	79.6	25.6	78.1	25.7	78.2	26.3	79.3	26.2	79.2
Noon	28.6	83.5	26.2	79.2	27.4	81.2	26.4	79.5	26.4	79.6	27.4	81.3	27.1	80.7
1 p.m.	29.2	84.5	26.7	80.0	27.9	82.3	27.1	80.8	27.1	80.8	28.3	82.9	27.7	81.9
2 p.m.	29.3	84.8	26.8	80.2	28.2	82.8	27.4	81.4	27.6	81.7	28.8	83.9	28.0	82.4
3 p.m.	29.0	84.3	26.4	76.6	28.0	82.4	27.2	81.0	27.7	81.9	29.0	84.2	27.9	82.2
4 p.m.	28.7	83.7	26.0	78.8	27.6	81.7	26.9	80.4	27.6	81.7	29.0	84.3	27.6	81.8
5 p.m.	28.3	82.9	25.7	78.3	27.0	80.6	26.6	79.8	27.2	81.0	29.0	84.3	27.3	81.2
6 p.m.	27.5	81.5	25.3	77.5	26.5	79.8	26.2	79.2	26.7	80.0	28.7	83.7	26.8	80.3
7 p.m.	26.8	80.3	24.9	76.8	25.9	78.7	25.7	78.3	26.1	78.9	28.0	82.4	26.2	79.2
8 p.m.	26.2	79.0	24.4	76.0	25.4	77.7	25.3	77.5	25.6	78.1	27.2	81.0	25.7	78.2
9 p.m.	25.5	78.0	24.0	75.2	24.9	76.8	24.9	76.9	25.2	77.3	26.4	79.5	25.2	77.8
10 p.m.	25.1	77.2	23.6	74.5	24.5	76.0	24.6	76.3	24.8	76.6	25.5	78.0	24.7	76.4
11 p.m.	24.8	76.6	23.3	73.9	24.1	75.4	24.2	75.6	24.4	76.0	25.0	76.9	24.3	75.7
Midnight	24.5	76.0	23.0	73.3	23.8	74.9	23.9	75.0	24.1	75.3	24.3	75.7	23.9	75.0
Means	26.0	78.7	23.9	75.1	25.0	77.0	24.7	76.4	24.9	76.9	25.5	77.9	25.0	77.1
Maxima	32.9	91.2	30.9	87.6	32.5	90.5	30.1	86.2	31.2	88.2	31.4	88.5	31.5	88.7
Minima	20.9	69.6	20.0	68.0	20.6	69.1	21.0	69.8	20.6	69.1	20.1	68.2	20.5	69.0