

PASO DEL NORTE—Continuación.

Fechas.	Estrellas.	Segundos en cada hilo.					Promedio.	Correcciones.			Hora cronométrica del paso de la estrella.	Hora media del paso de la estrella.	Δ t.
		I.	II.	III.	IV.	V.		Aa.	Bb.	Cc.			
1891.		s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	h. m. s.	s.
Diciembre 15	γ Cephei...	34.2	36.3	27.4	29.2	31.6	5 57 27.74	- 1.14	- 0.09	- 0.84	5 57 25.67	5 57 18.59	7.08
" 15	α Andro....	44.8	0.3	16.1	31.8	48.6	6 25 16.32	- 0.02	- 0.03	- 0.22	6 25 16.05	6 25 8.76	7.29
" 15	γ Pegasi...	39.1	53.2	7.3	22.0	36.2	6 30 7.54	+ 0.11	- 0.03	- 0.19	6 30 7.43	6 30 0.15	7.28
" 15	β Andro....	26.0	42.9	59.4	16.5	33.6	7 25 59.68	- 0.03	- 0.64	- 0.23	7 25 58.78	7 25 51.92	6.86
" 15	f Piscium..	3.2	17.0	30.4	44.6	58.8	7 34 30.80	+ 0.17	- 0.46	- 0.19	7 34 30.32	7 34 23.25	7.07
" 15	ξ ² Ceti.....	3.2	17.0	31.2	45.1	59.1	8 44 31.12	+ 0.15	- 0.49	- 0.19	8 44 30.59	8 44 23.43	7.16
" 15	5 Ursa min.	48.2	46.1	44.9	42.1	40.2	8 49 44.30	+ 1.54	+ 0.80	+ 0.77	8 49 47.47	8 49 40.30	7.11
" 15	δ Ceti.....	33.3	47.4	1.1	15.0	28.9	8 56 1.14	+ 0.19	- 0.56	- 0.17	8 56 0.60	8 55 53.48	7.12
" 15	47 Cephei...	25.6	39.2	51.3	4.7	17.5	9 13 51.60	- 1.38	- 2.43	- 0.90	9 13 46.89	9 13 39.77	7.11
											7 13		- 7.13
													± 0.025
" 17	ω Piscium..	53.2	7.1	21.1	35.2	49.0	6 8 21.12	- 0.51	- 0.16	- 0.54	6 8 20.93	6 8 16.08	- 4.85
" 17	k Draco....	54.1	35.4	17.1	57.8	39.2	6 43 16.72	+ 3.45	+ 0.17	- 1.55	6 43 21.89	6 43 17.03	4.86
" 17	α Cassio...	4.0	28.4	52.9	18.5	43.0	6 48 53.36	- 0.87	- 0.50	- 0.96	6 48 51.03	6 48 46.24	4.89
" 17	γ Cassio....			48.5	53.1	59.3	7 4 40.06	- 12.69	- 2.96	- 190.07	7 4 37.22	7 4 32.39	4.83
" 17	43 Cephei...	44.1	12.1	40.0	8.1	36.0	7 11 53.63	- 1.13	- 0.63	- 1.08	7 11 52.91	7 11 23.04	4.87
" 17	β Andro....	32.3	49.2	6.0	22.9	40.0	7 18 6.08	- 0.08	- 0.49	- 0.66	7 18 4.85	7 18 0.06	4.79
" 17	f Piscium..	9.0	23.2	36.4	50.1	4.0	7 26 36.54	+ 0.57	- 0.38	- 0.54	7 26 36.19	7 26 31.41	4.78
" 17	v Piscium..	40.1	54.2	7.6	22.0	36.1	7 50 8.00	+ 0.53	- 0.43	- 0.52	7 50 7.58	7 50 2.72	4.86
" 17	o Piscium..	32.2	46.1	0.2	14.1	28.3	7 54 0.18	+ 0.44	- 0.45	- 0.54	7 54 59.63	7 54 54.79	4.84
											7 10		- 4.84
													± 0.01

Registros de las señales luminosas cambiadas entre el Observatorio de Paso del Norte y el establecido cerca del monumento inicial.

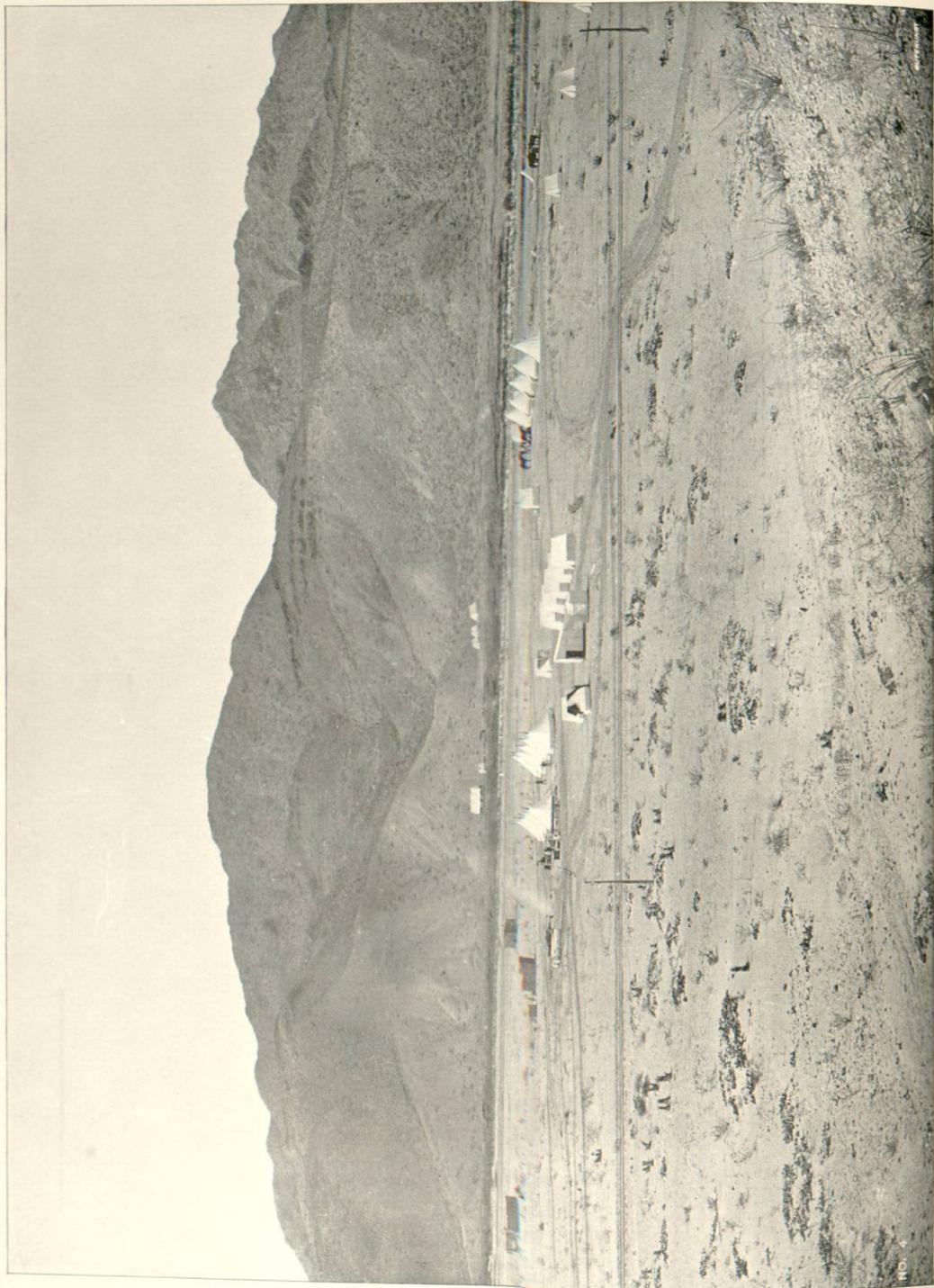
Fechas.	Registro de Paso del Norte.			Registro del Observatorio en el monumento inicial.			Diferencias.
	Tiempo del cronómetro.	Δ t.	Tiempo medio.	Tiempo del cronómetro.	Δ t.	Tiempo medio.	
1891.	h. m. s.	s.	h. m. s.	h. m. s.	h. m. s.	h. m. s.	s.
Diciembre 10...	5 59 37.4	-10.24	5 59 27.16	.....	.....	.....	.....
" 10...	6 2 57.2	10.24	6 2 46.96	.....	0 28 56.61	.....	.....
" 10...	6 5 9.8	10.24	6 4 59.56	6 33 46.0	0 28 56.61	6 4 49.39	10.17
" 10...	6 7 27.3	10.24	6 7 17.06	.....	0 28 56.61	.....	.....
" 10...	6 10 2.4	10.24	6 9 52.16	6 38 37.0	0 28 56.61	6 9 40.39	11.77
" 10...	6 12 39.8	10.24	6 12 29.57	.....	0 28 56.61	.....	.....
" 10...	6 14 52.5	10.23	6 14 42.27	6 43 27.1	0 28 56.61	6 14 30.49	11.78
" 10...	6 17 31.3	10.23	6 17 20.07	6 46 6.3	0 28 56.61	6 17 9.69	10.38
" 10...	6 20 0.7	10.23	6 19 50.47	6 48 35.4	0 28 56.61	6 19 38.79	11.68
" 10...	6 23 30.6	10.23	6 23 21.37	6 52 5.2	0 28 56.61	6 23 8.59	12.78
" 10...	6 25 55.3	10.23	6 25 45.07	6 54 30.2	0 28 56.61	6 25 33.59	11.48
" 10...	6 30 1.8	-10.23	6 29 51.57	6 58 35.2	-28 56.62	6 29 38.58	12.99
" 10...	6 33 45.4	-10.23	6 33 35.17	7 2 20.3	28 56.62	6 33 23.68	11.49

Registros de las señales luminosas cambiadas entre el Observatorio de Paso del Norte y el establecido cerca del monumento inicial—Continuación.

Fechas.	Registro de Paso del Norte.			Registro del Observatorio en el monumento inicial.			Diferencias.
	Tiempo del cronómetro.	Δ t.	Tiempo Medio.	Tiempo del cronómetro.	Δ t.	Tiempo Medio.	
1891.	h. m. s.	s.	h. m. s.	h. m. s.	m. s.	h. m. s.	s.
Diciembre 10...	6 35 54.8	10.23	6 35 44.57	7 4 29.6	28 56.62	6 35 32.98	11.59
" 10...	6 38 55.1	10.22	6 38 44.88	7 7 29.6	28 56.62	6 38 32.98	11.90
" 10...	6 40 55.8	10.22	6 40 45.58	.....	28 56.62	.....	.....
" 10...	6 43 37.2	10.22	6 43 26.98	7 12 12.0	28 56.62	6 43 15.38	11.60
" 10...	6 46 8.3	10.22	6 45 58.08	7 14 43.2	28 56.62	6 45 46.58	11.50
" 10...	6 48 51.3	10.22	6 48 41.08	7 17 26.0	28 56.62	6 48 29.38	11.70
" 10...	6 50 13.2	10.22	6 50 2.98	.....	28 56.62	.....	.....
" 10...	6 53 12.9	10.22	6 53 2.68	.....	28 56.62	.....	.....
" 10...	7 0 11.8	10.22	7 0 1.58	7 28 47.2	-28 56.63	6 59 50.57	11.01
" 10...	7 3 46.9	10.22	3 36.68	7 32 23.0	28 56.63	7 3 26.37	10.81
" 10...	7 5 15.2	10.22	7 5 4.98	7 33 50.7	28 56.63	7 4 54.07	10.91
" 10...	7 7 46.5	10.22	7 7 36.28	7 36 21.6	28 56.63	7 7 24.97	11.31
" 10...	7 10 16.3	10.22	7 10 6.08	7 38 50.8	28 56.63	7 9 53.17	12.91
" 10...	7 13 0.7	10.22	7 12 50.48	7 41 35.1	28 56.63	7 12 38.47	12.01
" 10...	7 15 19.3	10.22	7 15 9.08	7 43 54.0	28 56.63	7 14 57.37	11.71
" 10...	7 17 52.4	10.22	7 17 42.18	7 46 27.0	28 56.63	7 17 30.37	11.81
" 10...	7 20 20.8	10.21	7 20 10.59	7 48 55.2	28 56.63	7 19 58.57	12.02
" 10...	7 23 18.7	10.21	7 23 8.49	7 51 53.0	28 56.63	7 22 56.37	12.12
" 14...	5 0 59.3	-7.92	5 51 51.38	.....	-29 3.65	.....	.....
" 14...	6 2 59.1	7.92	6 2 51.18	6 31 43.1	29 3.65	6 2 39.45	11.73
" 14...	6 5 2.4	7.92	6 4 54.48	6 33 47.0	29 3.65	6 4 43.35	11.13
" 14...	6 7 24.3	7.91	6 7 14.39	6 36 8.0	29 3.65	6 7 4.35	10.04
" 14...	6 9 59.2	7.91	6 9 51.29	6 38 43.3	29 3.65	6 9 39.65	11.64
" 14...	6 12 54.6	7.91	6 12 46.69	6 41 38.0	29 3.65	6 12 34.35	12.34
" 14...	.....	.....	.....	6 43 52.2	29 3.65	6 14 48.55	.....
" 14...	6 17 31.7	7.91	6 17 23.79	6 46 15.9	29 3.65	6 17 12.25	11.54
" 14...	6 20 3.5	7.90	6 20 27.60	6 48 50.0	29 3.65	6 19 46.35	11.25
" 14...	6 22 34.6	7.90	6 22 26.70	.....	29 3.65	.....	.....
" 14...	6 28 6.3	7.90	6 27 58.40	6 56 50.6	-29 3.67	6 27 46.93	11.47
" 14...	6 30 30.6	7.90	6 30 22.70	6 59 14.9	29 3.67	6 30 11.23	11.47
" 14...	6 33 1.3	7.90	6 32 53.40	7 1 45.8	29 3.67	6 32 42.13	11.27
" 14...	6 35 31.2	7.90	6 35 23.30	7 4 15.8	29 3.67	6 35 12.13	11.17
" 14...	6 38 0.6	7.90	6 37 52.70	7 6 44.7	29 3.67	6 37 41.03	11.67
" 14...	6 40 33.4	7.90	6 40 25.50	7 9 17.2	29 3.67	6 40 13.53	11.97
" 14...	6 43 0.9	7.90	6 42 53.00	7 11 45.6	29 3.67	6 42 41.93	11.07
" 14...	6 45 34.6	7.89	6 45 26.71	7 14 17.9	29 3.67	6 45 14.23	12.48
" 14...	6 48 5.2	7.89	6 47 57.31	7 16 49.7	29 3.67	6 47 46.03	11.28
" 14...	6 50 37.6	7.89	6 50 29.71	7 19 20.8	29 3.67	6 50 17.13	12.78
" 14...	6 55 34.5	7.89	6 55 26.61	7 24 18.7	-29 3.70	6 55 15.00	11.61
" 14...	6 58 10.9	7.89	6 58 3.01	7 26 55.0	29 3.70	6 57 51.30	11.71
" 14...	7 0 37.2	7.89	7 0 29.34	7 29 21.2	29 3.70	7 0 17.50	11.81

Registros de las señales luminosas cambiadas entre el Observatorio de Paso del Norte y el establecido cerca del monumento inicial—Continuación.

Fechas.	Registro de Paso del Norte.			Registro del Observatorio en el monumento inicial.			Diferencias.
	Tiempo del cronómetro.	Δt .	Tiempo medio.	Tiempo del cronómetro.	Δt .	Tiempo medio.	
1891.	<i>h. m. s.</i>	<i>s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>m. s.</i>	<i>h. m. s.</i>	<i>s.</i>
Diciembre 14....	7 3 11.2	7.89	7 3 3.31	7 31 56.0	29 3.70	7 2 52.30	11.01
" 14....	7 5 38.5	7.88	7 5 30.62	7 34 22.9	29 3.70	7 5 19.20	11.42
" 14....	7 8 10.3	7.88	7 8 2.42	7 36 54.9	29 3.70	7 7 51.20	11.22
" 14....	7 10 38.4	7.88	7 10 30.52	7 39 23.0	29 3.70	7 10 19.30	11.22
" 14....	7 13 10.0	7.88	7 13 2.12	7 41 54.0	29 3.70	7 12 50.30	11.82
" 14....	7 15 40.8	7.88	7 15 32.92	7 44 25.2	29 3.70	7 15 21.50	11.42
" 14....	7 18 8.9	7.88	7 18 0.02	7 46 53.1	29 3.70	7 17 49.40	10.62
" 15....	6 1 22.4	-7.17	6 1 15.23	6 30 8.3	-29 4.81	6 1 3.49	11.74
" 15....	6 3 52.7	7.17	6 3 45.53	6 32 39.1	29 4.81	6 3 34.29	11.24
" 15....	6 8 52.2	7.17	6 8 45.03	6 37 39.0	29 4.81	6 8 34.19	10.84
" 15....	6 11 25.3	7.16	6 11 18.14	6 40 12.0	29 4.81	6 11 7.19	10.95
" 15....	6 13 56.7	7.16	6 13 49.54	6 42 43.1	29 4.81	6 13 38.29	11.25
" 15....	6 16 25.5	7.16	6 16 18.34	6 45 12.6	29 4.81	6 16 7.79	10.55
" 15....	6 18 50.6	7.16	6 18 43.44	6 47 37.0	29 4.81	6 18 32.19	11.25
" 15....	6 21 26.2	7.16	6 21 19.04	6 50 12.8	29 4.81	6 21 7.99	11.05
" 15....	6 23 56.7	7.16	6 23 49.54	6 52 43.0	29 4.81	6 23 38.19	11.35
" 15....	6 29 1.0	7.16	6 28 53.84	6 57 47.7	-29 4.83	6 28 42.87	10.97
" 15....	6 31 30.4	7.15	6 31 23.25	7 0 17.0	29 4.83	6 31 12.17	11.08
" 15....	6 34 1.3	7.15	6 33 54.15	7 2 47.9	29 4.83	6 33 43.07	11.08
" 15....	6 36 32.2	7.15	6 36 25.05	7 5 18.6	29 4.83	6 36 13.77	11.28
" 15....	6 39 42.2	7.15	6 38 57.05	7 7 50.4	29 4.83	6 38 45.57	11.48
" 15....	6 41 33.8	7.15	6 41 26.65	7 10 20.1	29 4.83	6 41 15.27	11.38
" 15....	6 44 6.9	7.15	6 43 59.75	7 12 53.2	29 4.83	6 43 48.37	11.33
" 15....	6 46 33.3	7.15	6 46 26.15	7 15 19.7	29 4.83	6 46 14.87	11.28
" 15....	6 49 4.2	7.15	6 48 57.05	7 17 50.8	29 4.83	6 48 45.97	11.08
" 15....	6 51 33.4	7.14	6 51 26.26	7 20 20.0	29 4.83	6 51 15.17	11.09
" 15....	6 56 36.4	7.14	6 56 27.26	7 25 23.9	-29 4.86	6 56 18.04	11.23
" 15....	6 59 7.3	7.14	6 59 0.16	7 27 53.9	29 4.86	6 58 49.04	11.12
" 15....	7 1 37.2	7.14	7 1 30.06	7 30 23.7	29 4.86	7 1 18.84	11.22
" 15....	7 4 7.1	7.14	7 3 59.96	7 32 53.6	29 4.86	7 3 48.74	11.22
" 15....	7 6 36.2	7.14	7 6 29.06	7 35 23.0	29 4.86	7 6 18.14	10.92
" 15....	7 9 8.1	7.13	7 9 0.97	7 37 54.7	29 4.86	7 8 49.84	11.13
" 15....	7 11 38.0	7.13	7 11 30.87	7 40 24.6	29 4.86	7 11 19.74	11.13
" 15....	7 14 8.8	7.13	7 14 1.67	7 42 55.2	29 4.86	7 13 50.34	11.33
" 15....	7 16 38.0	7.13	7 16 30.87	7 45 24.6	29 4.86	7 16 19.74	11.13
" 15....	7 19 8.6	7.13	7 19 1.47	7 47 55.2	29 4.86	7 18 50.34	11.13



CAMPAMENTO NÚMERO 1 DE LA SECCIÓN AMERICANA, EN EL RÍO GRANDE.

Resumen y discusión.

Resultados del día 10.			Resultados del día 14.			Resultados del día 15.		
l	d	d ²	l	d	d ²	l	d	d ²
(10.17)			11.73	0.38	0.0784	11.74	0.57	0.3249
11.77	0.08	0.0064	11.13	.32	.1024	11.24	.7	.49
11.78	.9	.81	(10.04)			10.84	.33	.1089
(10.38)			11.64	.19	.361	10.95	.22	.484
11.08	.1	.1	(12.34)			11.25	.8	.64
12.78	1.09	1.1881	11.54	.9	.81	10.55	.62	.3844
11.48	.21	.441	11.25	.20	.400	11.25	.8	.64
(12.99)			11.47	.2	.4	11.05	.12	.144
11.49	.30	.400	11.47	.2	.4	11.35	.18	.324
11.59	.10	.100	11.27	.18	.324	10.97	.20	.400
11.90	.21	.441	11.17	.38	.784	11.08	.9	.81
11.60	.9	.81	11.67	.22	.484	11.08	.9	.81
11.50	.19	.361	11.97	.52	.2704	11.28	.11	.121
11.70	.1	.1	11.07	.38	.1444	11.48	.31	.961
11.01	.68	.4624	12.48	1.03	1.0609	11.38	.21	.441
(10.31)			11.28	.17	.289	11.38	.21	.441
10.91	.22	.484	(12.78)			11.28	.11	.121
11.31	.38	.1444	11.61	.16	.256	11.08	.9	.81
(12.91)			11.71	.26	.676	11.09	.8	.64
12.01	.32	.1024	11.81	.36	.1366	11.22	.5	.25
11.71	.2	.4	11.01	.44	.1936	11.12	.5	.25
11.81	.12	.144	11.42	.3	.9	11.22	.5	.25
12.02	.33	.1089	11.22	.23	.529	11.22	.5	.25
12.12	.43	.1849	11.22	.23	.529	10.92	.25	.625
			11.82	.37	.1369	11.13	.4	.16
11.69		2.4514	11.42	.3	.9	11.13	.4	.16
		= ± 0.084	10.62	.17	.289	11.33	.16	.256
						11.13	.4	.16
			11.45		2.6194	11.13	.4	.16
					= ± 0.068	11.17		1.3148
								= ± 0.040

Errores probables y pesos de los promedios, teniendo en cuenta los errores probables de los tiempos.

Día 10. $\epsilon^2 = (0.084)^2 + (0.024)^2 + (0.043)^2 = 0.0095, \frac{1}{\epsilon^2} = 105$

Día 14. $\epsilon^2 = (0.068)^2 + (0.030)^2 + (0.060)^2 = 0.0039, \frac{1}{\epsilon^2} = 169$

Día 15. $\epsilon^2 = (0.040)^2 + (0.025)^2 + (0.012)^2 = 0.0024, \frac{1}{\epsilon^2} = 417$

Día 10. $l = 11.69, p = 105, pl = 1227.45, \Delta = 0.37, \Delta^2 = 0.1369$

Día 14. $l = 11.45, p = 169, pl = 1935.05, \Delta = 0.13, \Delta^2 = .0169$

Día 15. $l = 11.17, p = 417, pl = 4657.89, \Delta = 0.15, \Delta^2 = .0225$

$[P] = 691, [pl] = 7820.39, [p\Delta^2] = 30.6131$

$l = \frac{7820.39}{691} = 11.317 \pm 0.092$

Ecuación de los contadores de cronómetro..... = - 0.24

Ecuación de los observadores..... = - 0.07

Diferencias de longitud del Observatorio de El Paso al Observatorio en el monumento inicial..... = 11.007

Cambio de señales telegráficas entre los Observatorios de El Paso, Tacubaya y México.

Fecha.	Registro de Paso del Norte.		Registro de Tacubaya.	Registro de México.	Diferencia con Tacubaya.	Diferencia con México.	Promedio, reduciendo México a Tacubaya.
	Tiempo medio.	Tiempo sidéreo.					
1891.	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>m. s.</i>	<i>m. s.</i>	<i>m. s.</i>
Diciembre 15.....	7 56 9.19	1 34 2.68	2 3 11.91	2 3 27.14	29 9.23	29 24.46	29 9.245
" 15.....			2 3 22.00	2 3 37.23			
" 15.....	7 56 29.09	1 34 22.63	2 3 32.01	2 3 47.19	9.48	24.56	9.430
" 15.....	7 56 39.09	1 34 32.66	2 3 42.01	2 3 57.22	9.38	24.56	9.370
" 15.....	7 56 49.09	1 34 42.69	2 3 52.01	2 4 7.31	9.35	24.52	9.335
" 15.....	7 56 59.09	1 34 52.71	2 4 2.14	2 4 17.18	9.43	24.72	9.475
" 15.....	7 57 8.99	1 35 2.73	2 4 11.96	2 4 27.18	9.23	24.45	9.240
" 15.....	7 57 19.09	1 35 12.86	2 4 22.01	2 4 37.21	9.15	24.35	9.150
" 15.....	7 57 29.09	1 35 22.80	2 4 32.09	2 4 47.28	9.29	24.48	9.285
" 15.....	7 57 38.99	1 35 32.73	2 4 42.00	2 4 57.18	9.27	24.45	9.260
" 15.....	8 0 5.29	1 37 59.43	2 7 8.66	2 7 23.95	29 9.23	29 24.52	29 9.275
" 15.....	8 0 15.19	1 38 9.36	2 7 18.73	2 7 33.98	9.37	24.62	9.395
" 15.....	8 0 25.29	1 38 19.49	2 7 28.82	2 7 43.98	9.33	24.49	9.310
" 15.....	8 0 35.39	1 38 29.61	2 7 38.81	2 7 53.99	9.20	24.38	9.190
" 15.....	8 0 45.29	1 38 39.54	2 7 48.89	2 8 4.15	9.35	24.61	9.380
" 15.....	8 0 55.39	1 38 49.67	2 7 58.86	2 8 14.13	9.19	24.46	9.225
" 15.....	8 1 5.29	1 38 59.59	2 8 8.87	2 8 24.15	9.28	24.56	9.230
" 15.....	8 1 15.39	1 39 9.72	2 8 18.91	2 8 34.17	9.19	24.45	9.230
" 15.....	8 1 25.39	1 39 19.65	2 8 28.98	2 8 44.23	9.33	24.58	9.355
" 15.....	8 1 35.29	1 39 29.68	2 8 39.04	2 8 54.26	9.36	24.58	9.370
" 15.....	8 3 48.89	1 41 43.64	2 10 52.90	2 11 8.17	29 9.26	29 24.53	29 9.295
" 15.....	8 3 58.99	1 41 53.77	2 11 2.99	2 11 18.29	9.22	24.52	9.270
" 15.....	8 4 8.89	1 42 3.82	2 11 12.91	2 11 28.21	9.09	24.39	9.140
" 15.....	8 4 18.89	1 42 13.90	2 11 22.91	2 11 38.17	9.01	24.27	9.040
" 15.....	8 4 28.89	1 42 23.75	2 11 33.11	2 11 48.35	9.36	24.60	9.380
" 15.....	8 4 38.89	1 42 33.78	2 11 43.07	2 11 58.34	9.29	24.56	9.325
" 15.....	8 4 48.79	1 42 43.70	2 11 53.10	2 12 8.38	9.40	24.68	9.440
" 15.....	8 4 58.89	1 42 53.83	2 12 3.13	2 12 18.42	9.30	24.59	9.345
" 15.....	8 5 8.99	1 43 3.96	2 12 13.09	2 12 28.34	9.13	24.38	9.155
" 15.....	8 5 18.89	1 43 13.88	2 12 23.17	2 12 38.43	9.29	24.55	9.320
" 15.....	8 7 52.29	1 45 47.70	2 14 56.98	2 15 12.24	29 9.28	29 24.54	29 9.310
" 15.....	8 8 2.19	1 45 57.63	2 15 6.94	2 15 22.28	9.31	24.65	9.380
" 15.....	8 8 12.39	1 46 7.86	2 15 17.01	2 15 32.32	9.15	24.46	9.305
" 15.....	8 8 22.39	1 46 17.78	2 15 26.99	2 15 42.29	9.21	24.51	9.260
" 15.....	8 8 32.39	1 46 27.81	2 15 37.06	2 15 52.34	9.25	24.53	9.290
" 15.....	8 8 42.19	1 46 37.63	2 15 47.05	2 16 2.36	9.42	24.73	9.475
" 15.....	8 8 52.39	1 46 47.86	2 15 57.11	2 16 12.39	9.25	24.53	9.290
" 15.....	8 9 2.19	1 46 57.79	2 16 7.06	2 16 22.34	9.27	24.55	9.310
" 15.....	8 9 12.09	1 47 7.72	2 16 17.01	2 16 32.30	9.29	24.58	9.335
" 15.....	8 9 22.09	1 47 17.75	2 16 27.00	2 16 42.29	9.25	24.54	9.295
" 15.....	8 10 45.20	1 48 41.08	2 17 50.61	2 18 5.86	29 9.53	29 24.78	29 9.555
" 15.....	8 10 35.40	1 48 51.31	2 18 0.67	2 18 15.92	9.36	24.61	9.385
" 15.....	8 11 5.70	1 49 1.64	2 18 11.11	2 18 26.40	9.47	24.76	9.520

Cambio de señales telegráficas entre los Observatorios de El Paso, Tacubaya y México—Continuación.

Fecha.	Registro de Paso del Norte.		Registro de Tacubaya.	Registro de México.	Diferencia con Tacubaya.	Diferencia con México.	Promedio, reduciendo México a Tacubaya.
	Tiempo medio.	Tiempo sidéreo.					
1891.	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>m. s.</i>	<i>m. s.</i>	<i>m. s.</i>
Diciembre 15.....	8 11 15.40	1 49 11.36	2 18 30.68	2 18 35.91	29 9.32	29 24.55	29 9.335
" 15.....	8 11 25.50	1 49 21.49	2 18 30.73	2 18 45.96	9.32	24.47	9.245
" 15.....	8 11 35.40	1 49 31.42	2 18 40.76	2 18 55.96	9.32	24.54	9.330
" 15.....	8 11 45.50	1 49 41.54	2 18 50.79	2 19 5.97	9.25	24.43	9.240
" 15.....	8 11 55.40	1 49 51.47	2 19 0.77	2 19 16.01	29 9.30	29 24.54	29 9.330
" 15.....	8 12 5.30	1 50 1.40	2 19 10.81	2 19 26.01	9.41	24.61	9.410
" 15.....	8 12 15.50	1 50 11.63	2 19 30.91	2 19 36.21	9.28	24.58	9.330
" 15.....	8 13 42.90	1 51 39.27	2 20 48.61	2 21 3.81	29 9.34	29 24.54	29 9.340
" 15.....	8 13 52.90	1 51 49.30	2 20 58.63	2 21 13.90	9.33	24.60	9.365
" 15.....	8 14 2.90	1 51 59.33	2 21 8.62	2 21 23.89	9.29	24.56	9.325
" 15.....	8 14 12.90	1 52 9.36	2 21 18.69	2 21 33.96	9.33	24.63	9.380
" 15.....	8 14 22.90	1 52 19.38	2 21 28.76	2 21 43.98	9.38	24.60	9.330
" 15.....	8 14 32.90	1 52 29.41	2 21 38.81	2 21 53.95	9.40	24.54	9.370
" 15.....	8 14 42.90	1 52 39.44	2 21 48.76	2 22 3.95	9.32	24.51	9.315
" 15.....	8 14 52.90	1 52 49.46	2 21 58.86	2 22 14.15	9.40	24.60	9.445
" 15.....	8 15 2.90	1 52 59.49	2 22 8.80	2 22 24.10	9.31	24.61	9.360
" 15.....	8 15 12.90	1 53 9.52	2 22 18.95	2 22 34.20	9.43	24.68	9.445
" 17.....	7 59 56.31	1 45 43.54	2 14 52.07	2 15 7.07	29 8.53	29 23.53	29 8.43
" 17.....	8 0 6.41	1 45 53.67	2 15 2.03	2 15 17.07	8.36	23.40	8.26
" 17.....	8 0 16.21	1 46 3.50	2 15 11.97	2 15 27.01	8.47	23.51	8.39
" 17.....	8 0 26.21	1 46 13.52	2 15 22.02	2 15 37.06	8.50	23.54	8.42
" 17.....	8 0 36.21	1 46 23.54	2 15 32.02	2 15 47.01	8.48	23.47	8.37
" 17.....	8 0 46.11	1 46 33.48	2 15 42.12	2 15 57.14	8.64	23.66	8.55
" 17.....	8 0 56.11	1 46 43.51	2 15 52.10	2 16 7.12	8.49	23.61	8.45
" 17.....	8 1 6.21	1 46 53.63	2 16 2.07	2 16 17.12	9.44	23.49	8.86
" 17.....	8 1 16.61	1 47 3.06	2 16 12.02	2 16 27.06	8.96	24.00	8.88
" 17.....	8 1 26.61	1 47 13.09	2 16 22.12	2 16 37.17	9.03	24.08	8.95
" 17.....	8 2 54.51	1 48 42.23	2 17 50.82	2 18 5.82	29 8.59	29 23.59	29 8.49
" 17.....	8 3 4.41	1 48 52.16	2 18 0.87	2 18 15.94	8.71	23.78	8.65
" 17.....	8 3 14.61	1 49 2.38	2 18 10.93	2 18 26.02	8.55	23.64	8.49
" 17.....	8 3 24.41	1 49 12.38	2 18 20.92	2 18 35.97	8.71	23.76	8.64
" 17.....	8 3 34.31	1 49 22.15	2 18 30.92	2 18 45.95	8.77	23.80	8.68
" 17.....	8 3 44.61	1 49 32.47	2 18 40.94	2 18 55.98	8.47	23.51	8.39
" 17.....	8 3 54.41	1 49 42.30	2 18 50.91	2 19 5.98	8.61	23.68	8.55
" 17.....	8 4 4.61	1 49 52.52	2 19 1.01	2 19 16.11	8.49	23.59	8.44
" 17.....	8 4 14.51	1 50 2.65	2 19 11.07	2 19 26.14	8.62	23.69	8.55
" 17.....	8 4 24.41	1 50 12.38	2 19 21.13	2 19 36.15	8.75	23.77	8.66
" 17.....	8 5 34.22	1 51 22.48	2 20 31.10	2 20 45.15	29 8.62	29 23.67	29 8.55
" 17.....	8 5 44.42	1 51 32.62	2 20 41.32	2 20 56.34	8.70	23.72	8.61
" 17.....	8 5 54.02	1 51 42.25	2 20 51.19	2 21 6.13	8.94	23.88	8.81
" 17.....	8 6 4.22	1 51 52.46	2 21 1.12	2 21 16.16	8.66	23.70	8.58
" 17.....	8 6 14.32	1 52 2.59	2 21 11.15	2 21 26.12	8.56	23.53	8.45
" 17.....	8 6 24.22	1 52 12.52	2 21 21.20	2 21 36.14	8.68	23.62	8.55
" 17.....	8 6 34.32	1 52 22.64	2 21 31.22	2 21 46.27	8.58	23.63	8.51
" 17.....	8 6 44.12	1 52 32.47	2 21 41.37	2 21 56.49	8.90	24.02	8.86