

TABLA IV.

LOGARITMOS DE A Y B.

Tiempo transcurrido.	9 ^h		10 ^h		11 ^h		12 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
0 ^m	9.5115	9.0943	9.5379	8.9509	9.6406	8.7563	9.6841	9.0971
1	.5119	.0925	.5384	.9478	.6412	.7641	.6848	.1014
2	.5123	.0906	.5389	.9447	.6419	.7718	.6856	.1057
3	.5127	.0887	.5393	.9416	.6426	.7794	.6864	.1099
4	.5132	.0867	.5398	.9384	.6433	.7868	.6872	.1141
5	9.5136	9.0848	9.5403	8.9352	9.6440	8.7942	9.6879	9.1183
6	.5140	.0828	.5408	.9320	.6447	.8015	.6887	.1224
7	.5144	.0809	.5412	.9287	.6454	.8087	.6895	.1265
8	.5148	.0789	.5417	.9254	.6461	.8158	.6903	.1306
9	.5153	.0769	.5422	.9221	.6467	.8227	.6911	.1347
10	9.5157	9.0749	9.5427	8.9187	9.6474	8.8296	9.6919	9.1387
11	.5161	.0729	.5432	.9153	.6481	.8364	.6926	.1428
12	.5165	.0708	.5436	.9118	.6488	.8432	.6934	.1468
13	.5169	.0688	.5441	.9083	.6495	.8498	.6942	.1507
14	.5174	.0667	.5446	.9048	.6502	.8564	.6950	.1547
15	9.5178	9.0646	9.5451	8.9013	9.6509	8.8628	9.6958	9.1586
16	.5182	.0625	.5456	.8977	.6516	.8692	.6966	.1625
17	.5186	.0604	.5461	.8940	.6523	.8756	.6974	.1664
18	.5191	.0583	.5466	.8903	.6530	.8818	.6982	.1703
19	.5195	.0561	.5470	.8866	.6538	.8880	.6990	.1741
20	9.5199	9.0540	9.5475	8.8829	9.6545	8.8941	9.6998	9.1779
21	.5204	.0517	.5480	.8791	.6552	.9002	.7006	.1817
22	.5208	.0496	.5485	.8752	.6559	.9062	.7014	.1865
23	.5212	.0474	.5490	.8713	.6566	.9121	.7022	.1893
24	.5217	.0452	.5495	.8674	.6573	.9180	.7030	.1930
25	9.5221	9.0429	9.5500	8.8634	9.6580	8.9238	9.7038	9.1967
26	.5225	.0406	.5505	.8594	.6588	.9295	.7047	.2004
27	.5230	.0383	.5510	.8553	.6595	.9352	.7055	.2041
28	.5234	.0360	.5515	.8512	.6602	.9408	.7063	.2078
29	.5238	.0337	.5520	.8470	.6609	.9464	.7071	.2114
30	9.5243	9.0314	9.5525	8.8427	9.6616	8.9519	9.7079	9.2150

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Tiempo transcurrido.	9 ^h		10 ^h		11 ^h		12 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
30 ^m	9.5243	9.0314	9.5525	8.8427	9.6616	8.9519	9.7079	9.2150
31	.5247	.0290	.5530	.8384	.6624	.9573	.7088	.2186
32	.5252	.0266	.5535	.8341	.6631	.9627	.7096	.2222
33	.5256	.0242	.5540	.8297	.6638	.9681	.7104	.2258
34	.5261	.0218	.5545	.8253	.6645	.9734	.7112	.2293
35	9.5265	9.0194	9.5550	8.8208	9.6653	8.9787	9.7121	9.2329
36	.5269	.0169	.5555	.8162	.6660	.9839	.7129	.2364
37	.5274	.0144	.5560	.8115	.6667	.9891	.7137	.2399
38	.5278	.0119	.5565	.8068	.6675	.9942	.7146	.2434
39	.5283	.0094	.5570	.8020	.6682	.9993	.7154	.2468
40	9.5287	9.0069	9.5576	8.7972	9.6690	9.0043	9.7162	9.2503
41	.5292	.0043	.5581	.7923	.6697	.0093	.7171	.2537
42	.5296	.0017	.5586	.7873	.6704	.0142	.7179	.2571
43	.5301	8.9991	.5591	.7823	.6712	.0191	.7187	.2605
44	.5305	.9965	.5596	.7772	.6719	.0240	.7196	.2639
45	9.5310	8.9938	9.5601	8.7720	9.6727	9.0288	9.7204	9.2673
46	.5315	.9911	.5606	.7668	.6734	.0336	.7213	.2706
47	.5319	.9884	.5612	.7614	.6742	.0384	.7221	.2740
48	.5324	.9857	.5617	.7560	.6749	.0431	.7230	.2773
49	.5328	.9830	.5622	.7505	.6757	.0478	.7238	.2806
50	9.5333	8.9802	9.5627	8.7449	9.6764	9.0524	9.7247	9.2839
51	.5337	.9774	.5632	.7392	.6772	.0570	.7256	.2872
52	.5342	.9745	.5638	.7335	.6779	.0616	.7264	.2905
53	.5347	.9717	.5643	.7276	.6787	.0662	.7273	.2937
54	.5351	.9688	.5648	.7217	.6795	.0707	.7281	.2970
55	9.5356	8.9659	9.5654	8.7156	9.6802	9.0752	9.7290	9.3002
56	.5361	.9630	.5659	.7094	.6810	.0796	.7299	.3034
57	.5365	.9600	.5664	.7032	.6818	.0840	.7307	.3066
58	.5370	.9570	.5669	.6968	.6825	.0884	.7316	.3098
59	.5375	.9540	.5675	.6903	.6833	.0928	.7324	.3130
60	9.5379	8.9509	9.5680	8.6837	9.6841	9.0971	9.7333	9.3162

TABLA IV.

LOGARITMOS DE A Y B.

Tiempo transcurrido.	13 ^h		14 ^h		15 ^h		16 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
0 ^m	9.7333	9.3162	9.7895	9.4884	9.8539	9.6383	9.9287	9.7782
1	.7342	.3194	.7905	.4911	.8550	.6407	.9300	.7804
2	.7351	.3235	.7915	.4937	.8562	.6431	.9314	.7827
3	.7360	.3256	.7925	.4963	.8573	.6455	.9327	.7850
4	.7369	.3287	.7935	.4990	.8585	.6478	.9341	.7873
5	9.7378	9.3319	9.7945	9.5016	9.8597	9.6502	9.9355	9.7896
6	.7386	.3350	.7955	.5042	.8608	.6526	.9368	.7919
7	.7395	.3380	.7965	.5068	.8620	.6550	.9382	.7942
8	.7404	.3411	.7975	.5094	.8632	.6573	.9396	.7965
9	.7413	.3442	.7986	.5120	.8644	.6597	.9410	.7988
10	9.7422	9.3472	9.7996	9.5146	9.8655	9.6621	9.9424	9.8011
11	.7431	.3503	.8006	.5171	.8667	.6644	.9437	.8034
12	.7440	.3533	.8016	.5197	.8679	.6668	.9451	.8057
13	.7449	.3563	.8027	.5223	.8691	.6691	.9465	.8080
14	.7458	.3593	.8037	.5248	.8703	.6715	.9479	.8103
15	9.7467	9.3623	9.8047	9.5274	9.8717	9.6738	9.9493	9.8126
16	.7476	.3653	.8058	.5300	.8727	.6762	.9508	.8149
17	.7485	.3683	.8068	.5325	.8739	.6785	.9522	.8172
18	.7494	.3713	.8078	.5351	.8751	.6809	.9536	.8195
19	.7503	.3742	.8089	.5376	.8763	.6832	.9550	.8218
20	9.7512	9.3772	9.8099	9.5401	9.8775	9.6856	9.9564	9.8241
21	.7522	.3801	.8110	.5427	.8787	.6879	.9579	.8264
22	.7530	.3831	.8120	.5452	.8799	.6903	.9593	.8287
23	.7541	.3860	.8131	.5477	.8812	.6926	.9607	.8310
24	.7549	.3889	.8141	.5502	.8824	.6949	.9622	.8333
25	9.7558	9.3918	9.8152	9.5528	9.8836	9.6973	9.9636	9.8356
26	.7568	.3947	.8162	.5553	.8848	.6996	.9651	.8379
27	.7577	.3976	.8173	.5578	.8861	.7019	.9665	.8402
28	.7586	.4005	.8184	.5603	.8873	.7043	.9680	.8425
29	.7595	.4033	.8194	.5628	.8885	.7066	.9695	.8448
30	9.7605	9.4062	9.8205	9.5653	9.8898	9.7089	9.9709	9.8471

TABLA IV.

LOGARITMOS DE A Y B.

Tiempo transcurrido.	13 ^h		14 ^h		15 ^h		16 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
30 ^m	9.7605	9.4062	9.8205	9.5653	9.8898	9.7089	9.9709	9.8471
31	.7614	.4090	.8216	.5677	.8910	.7112	.9724	.8494
32	.7624	.4119	.8227	.5702	.8923	.7136	.9739	.8517
33	.7633	.4147	.8237	.5727	.8935	.7159	.9754	.8540
34	.7642	.4175	.8248	.5752	.8948	.7182	.9769	.8563
35	9.7652	9.4204	9.8258	9.5777	9.8961	9.7205	9.9784	9.8586
36	.7661	.4232	.8270	.5801	.8973	.7228	.9798	.8609
37	.7671	.4260	.8281	.5826	.8986	.7251	.9813	.8632
38	.7680	.4288	.8292	.5850	.8999	.7275	.9829	.8655
39	.7690	.4316	.8303	.5875	.9011	.7298	.9844	.8678
40	9.7699	9.4343	9.8314	9.5900	9.9024	9.7321	9.9859	9.8701
41	.7709	.4371	.8325	.5924	.9037	.7344	.9874	.8724
42	.7718	.4399	.8336	.5948	.9050	.7367	.9889	.8748
43	.7728	.4426	.8347	.5973	.9063	.7390	.9904	.8771
44	.7738	.4454	.8358	.5997	.9075	.7413	.9920	.8794
45	9.7747	9.4481	9.8369	9.6022	9.9088	9.7436	9.9935	9.8817
46	.7757	.4509	.8380	.6046	.9101	.7459	.9951	.8840
47	.7767	.4536	.8391	.6070	.9114	.7482	.9966	.8863
48	.7776	.4563	.8402	.6094	.9127	.7505	.9982	.8887
49	.7786	.4590	.8414	.6119	.9140	.7529	.9998	.8910
50	9.7796	9.4617	9.8424	9.6143	9.9154	9.7552	0.0013	9.8933
51	.7806	.4644	.8436	.6167	.9167	.7575	.0029	.8956
52	.7815	.4671	.8447	.6191	.9180	.7598	.0044	.8980
53	.7825	.4698	.8459	.6215	.9193	.7621	.0060	.9003
54	.7835	.4725	.8470	.6239	.9206	.7644	.0076	.9026
55	9.7845	9.4752	9.8481	9.6263	9.9220	9.7667	0.0092	9.9050
56	.7855	.4778	.8493	.6287	.9233	.7690	.0108	.9073
57	.7865	.4805	.8504	.6311	.9246	.7713	.0124	.9096
58	.7875	.4831	.8516	.6335	.9260	.7736	.0140	.9120
59	.7885	.4858	.8527	.6359	.9273	.7759	.0156	.9143
60	9.7895	9.4884	9.8539	9.6383	9.9287	9.7782	0.0172	9.9167

TABLA IV.

LOGARITMOS DE A Y B.

Tiempo transcurrido.	17 ^h		18 ^h		19 ^h		20 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
0 ^m	0.0172	9.9167	0.1249	0.0625	0.2623	0.2279	0.4523	0.4372
1	.0188	.9190	.1269	.0650	.2649	.2309	.4562	.4414
2	.0204	.9213	.1290	.0676	.2676	.2339	.4601	.4455
3	.0221	.9237	.1310	.0701	.2702	.2370	.4640	.4497
4	.0237	.9260	.1330	.0727	.2729	.2401	.4680	.4540
5	0.0253	9.9284	0.1351	0.0753	0.2756	0.2431	0.4720	0.4582
6	.0270	.9307	.1371	.0779	.2783	.2462	.4761	.4625
7	.0286	.9331	.1392	.0805	.2810	.2493	.4801	.4668
8	.0303	.9355	.1412	.0830	.2838	.2524	.4842	.4711
9	.0319	.9378	.1433	.0856	.2865	.2556	.4884	.4755
10	0.0336	9.9402	0.1454	0.0882	0.2893	0.2587	0.4926	0.4799
11	.0353	.9426	.1475	.0909	.2921	.2619	.4968	.4844
12	.0370	.9449	.1496	.0935	.2949	.2650	.5010	.4889
13	.0386	.9473	.1517	.0961	.2977	.2682	.5053	.4934
14	.0403	.9497	.1538	.0987	.3005	.2714	.5097	.4980
15	0.0420	9.9520	0.1559	0.1013	0.3034	0.2746	0.5140	0.5026
16	.0437	.9544	.1581	.1040	.3063	.2778	.5184	.5072
17	.0454	.9568	.1602	.1066	.3091	.2811	.5229	.5118
18	.0472	.9592	.1623	.1093	.3120	.2843	.5274	.5165
19	.0489	.9616	.1645	.1119	.3150	.2876	.5319	.5213
20	0.0506	9.9640	0.1667	0.1146	0.3179	0.2909	0.5365	0.5261
21	.0523	.9664	.1689	.1173	.3208	.2942	.5411	.5309
22	.0541	.9687	.1711	.1200	.3238	.2975	.5458	.5358
23	.0558	.9711	.1733	.1226	.3268	.3008	.5505	.5407
24	.0576	.9735	.1755	.1253	.3298	.3041	.5553	.5457
25	0.0593	9.9760	0.1777	0.1280	0.3328	0.3075	0.5601	0.5507
26	.0611	.9784	.1799	.1308	.3359	.3109	.5649	.5557
27	.0628	.9808	.1821	.1335	.3389	.3143	.5698	.5608
28	.0646	.9832	.1844	.1362	.3420	.3177	.5748	.5660
29	.0664	.9856	.1867	.1389	.3451	.3211	.5798	.5712
30	0.0682	9.9880	0.1889	0.1417	0.3482	0.3245	0.5848	0.5764

TABLA IV.

LOGARITMOS DE A Y B.

Tiempo transcurrido.	17 ^h		18 ^h		19 ^h		20 ^h	
	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.	Log. A.	Log. B.
30 ^m	0.0682	0.9880	0.1889	0.1417	0.3482	0.3245	0.5848	0.5764
31	.0700	.9904	.1912	.1444	.3514	.3280	.5899	.5817
32	.0718	.9929	.1935	.1472	.3545	.3315	.5951	.5871
33	.0736	.9953	.1958	.1499	.3577	.3350	.6003	.5925
34	.0754	.9977	.1981	.1527	.3609	.3385	.6056	.5979
35	0.0772	0.0002	0.2004	0.1555	0.3641	0.3420	0.6110	0.6034
36	.0790	.0026	.2028	.1582	.3674	.3456	.6164	.6090
37	.0809	.0051	.2051	.1610	.3706	.3491	.6218	.6147
38	.0827	.0075	.2075	.1638	.3739	.3527	.6273	.6204
39	.0845	.0100	.2098	.1667	.3772	.3563	.6329	.6261
40	0.0864	0.0124	0.2122	0.1695	0.3805	0.3599	0.6386	0.6319
41	.0883	.0149	.2146	.1723	.3839	.3636	.6443	.6378
42	.0901	.0173	.2170	.1751	.3873	.3673	.6501	.6438
43	.0920	.0198	.2194	.1780	.3907	.3710	.6560	.6498
44	.0939	.0223	.2218	.1808	.3941	.3747	.6619	.6559
45	0.0958	0.0248	0.2243	0.1837	0.3975	0.3784	0.6679	0.6621
46	.0976	.0272	.2267	.1866	.4010	.3822	.6740	.6684
47	.0995	.0297	.2292	.1895	.4045	.3859	.6802	.6747
48	.1015	.0322	.2316	.1924	.4080	.3897	.6865	.6811
49	.1034	.0347	.2341	.1953	.4115	.3936	.6928	.6876
50	0.1053	0.0372	0.2366	0.1982	0.4151	0.3974	0.6993	0.6942
51	.1072	.0397	.2391	.2011	.4187	.4013	.7058	.7008
52	.1092	.0422	.2416	.2040	.4223	.4052	.7124	.7076
53	.1111	.0447	.2442	.2070	.4260	.4091	.7191	.7144
54	.1131	.0473	.2467	.2099	.4297	.4130	.7259	.7214
55	0.1150	0.0498	0.2493	0.2129	0.4334	0.4170	0.7328	0.7284
56	.1170	.0523	.2518	.2159	.4371	.4210	.7398	.7355
57	.1190	.0548	.2544	.2189	.4408	.4250	.7469	.7428
58	.1209	.0574	.2570	.2219	.4446	.4291	.7541	.7501
59	.1229	.0599	.2596	.2249	.4485	.4331	.7615	.7576
60	0.1249	0.0625	0.2623	0.2279	0.4523	0.4372	0.7689	0.7652

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

<i>h</i>	0 ^m	1 ^m	2 ^m	3 ^m	4 ^m	5 ^m	6 ^m	7 ^m
	"	"	"	"	"	"	"	"
0 ^s	0.00	1.96	7.85	17.67	31.42	49.09	70.68	96.20
1	0.00	2.03	7.98	17.87	31.68	49.41	71.07	96.66
2	0.00	2.10	8.12	18.07	31.94	49.74	71.47	97.12
3	0.00	2.16	8.25	18.27	32.20	50.07	71.86	97.58
4	0.01	2.23	8.39	18.47	32.47	50.40	72.26	98.04
5	0.01	2.31	8.52	18.67	32.74	50.73	72.66	98.50
6	0.02	2.38	8.66	18.87	33.01	51.07	73.06	98.97
7	0.02	2.45	8.80	19.07	33.27	51.40	73.46	99.43
8	0.03	2.52	8.94	19.28	33.54	51.74	73.86	99.90
9	0.04	2.60	9.08	19.48	33.81	52.07	74.26	100.37
10	0.05	2.67	9.22	19.69	34.09	52.41	74.66	100.84
11	0.06	2.75	9.36	19.90	34.36	52.75	75.06	101.31
12	0.08	2.83	9.50	20.11	34.64	53.09	75.47	101.78
13	0.09	2.91	9.64	20.32	34.91	53.43	75.88	102.25
14	0.11	2.99	9.79	20.53	35.19	53.77	76.29	102.72
15	0.12	3.07	9.94	20.74	35.46	54.11	76.69	103.20
16	0.14	3.15	10.09	20.95	35.74	54.46	77.10	103.67
17	0.16	3.23	10.24	21.16	36.02	54.80	77.51	104.15
18	0.18	3.32	10.39	21.38	36.30	55.15	77.93	104.63
19	0.20	3.40	10.54	21.60	36.58	55.50	78.34	105.10
20	0.22	3.49	10.69	21.82	36.87	55.84	78.75	105.58
21	0.24	3.58	10.84	22.03	37.15	56.19	79.16	106.06
22	0.26	3.67	11.00	22.25	37.44	56.55	79.58	106.55
23	0.28	3.76	11.15	22.47	37.72	56.90	80.00	107.03
24	0.31	3.85	11.31	22.70	38.01	57.25	80.42	107.51
25	0.34	3.94	11.47	22.92	38.30	57.60	80.84	107.99
26	0.37	4.03	11.63	23.14	38.59	57.96	81.26	108.48
27	0.40	4.12	11.79	23.37	38.88	58.32	81.68	108.97
28	0.43	4.22	11.95	23.60	39.17	58.68	82.10	109.46
29	0.46	4.32	12.11	23.82	39.46	59.03	82.52	109.95
30	0.49	4.42	12.27	24.05	39.76	59.40	82.95	110.44

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

<i>h</i>	0 ^m	1 ^m	2 ^m	3 ^m	4 ^m	5 ^m	6 ^m	7 ^m
	"	"	"	"	"	"	"	"
30 ^s	0.49	4.42	12.27	24.05	39.76	59.40	82.95	110.44
31	0.52	4.52	12.43	24.28	40.05	59.75	83.38	110.93
32	0.56	4.62	12.60	24.51	40.35	60.11	83.81	111.43
33	0.59	4.72	12.76	24.74	40.65	60.47	84.23	111.92
34	0.63	4.82	12.93	24.98	40.95	60.84	84.66	112.41
35	0.67	4.92	13.10	25.21	41.25	61.20	85.09	112.90
36	0.71	5.03	13.27	25.45	41.55	61.57	85.52	113.40
37	0.75	5.13	13.44	25.68	41.85	61.94	85.95	113.90
38	0.79	5.24	13.62	25.92	42.15	62.31	86.39	114.40
39	0.83	5.34	13.79	26.16	42.45	62.68	86.82	114.90
40	0.87	5.45	13.96	26.40	42.76	63.05	87.26	115.40
41	0.91	5.56	14.13	26.64	43.06	63.42	87.70	115.90
42	0.96	5.67	14.31	26.88	43.37	63.79	88.14	116.40
43	1.01	5.78	14.49	27.12	43.68	64.16	88.57	116.90
44	1.06	5.90	14.67	27.37	43.99	64.54	89.01	117.41
45	1.10	6.01	14.85	27.61	44.30	64.91	89.45	117.92
46	1.15	6.13	15.03	27.86	44.61	65.29	89.89	118.43
47	1.20	6.24	15.21	28.10	44.92	65.67	90.33	118.94
48	1.26	6.36	15.39	28.35	45.24	66.05	90.78	119.45
49	1.31	6.48	15.57	28.60	45.55	66.43	91.23	119.96
50	1.36	6.60	15.76	28.85	45.87	66.81	91.68	120.47
51	1.42	6.72	15.95	29.10	46.18	67.19	92.12	120.98
52	1.48	6.84	16.14	29.36	46.50	67.58	92.57	121.49
53	1.53	6.96	16.32	29.61	46.82	67.96	93.02	122.01
54	1.59	7.09	16.51	29.86	47.14	68.35	93.47	122.53
55	1.65	7.21	16.70	30.12	47.46	68.73	93.92	123.05
56	1.71	7.34	16.89	30.38	47.79	69.12	94.38	123.57
57	1.77	7.46	17.08	30.64	48.11	69.51	94.83	124.09
58	1.83	7.60	17.28	30.90	48.43	69.90	95.29	124.61
59	1.89	7.72	17.47	31.16	48.76	70.29	95.74	125.13

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

h	8 ^m	9 ^m	10 ^m	11 ^m	12 ^m	13 ^m	14 ^m
	"	"	"	"	"	"	"
0 ^o	125.65	159.02	196.32	237.54	282.68	331.74	384.74
1	126.17	159.61	196.97	238.26	283.47	332.59	385.65
2	126.70	160.20	197.63	238.98	284.26	333.44	386.56
3	127.22	160.80	198.28	239.70	285.04	334.29	387.48
4	127.75	161.39	198.94	240.42	285.83	335.15	388.40
5	128.28	161.98	199.60	241.14	286.62	336.00	389.32
6	128.81	162.58	200.26	241.87	287.41	336.86	390.24
7	129.34	163.17	200.92	242.60	288.20	337.72	391.16
8	129.87	163.77	201.59	243.33	289.00	338.58	392.09
9	130.40	164.37	202.25	244.06	289.79	339.44	393.01
10	130.94	164.97	202.92	244.79	290.58	340.30	393.94
11	131.47	165.57	203.58	245.52	291.38	341.16	394.86
12	132.01	166.17	204.25	246.25	292.18	342.02	395.79
13	132.55	166.77	204.92	246.98	292.98	342.88	396.72
14	133.09	167.37	205.59	247.72	293.78	343.75	397.65
15	133.63	167.97	206.26	248.45	294.58	344.62	398.58
16	134.17	168.58	206.93	249.19	295.38	345.49	399.52
17	134.71	169.19	207.60	249.93	296.18	346.36	400.45
18	135.25	169.80	208.27	250.67	296.99	347.23	401.38
19	135.80	170.41	208.94	251.41	297.79	348.10	402.32
20	136.34	171.02	209.62	252.15	298.60	348.97	403.26
21	136.88	171.63	210.30	252.89	299.40	349.84	404.20
22	137.43	172.24	210.98	253.63	300.21	350.71	405.14
23	137.98	172.85	211.66	254.37	301.02	351.58	406.08
24	138.53	173.47	212.34	255.12	301.83	352.46	407.02
25	139.08	174.08	213.02	255.87	302.64	353.34	407.96
26	139.63	174.70	213.70	256.62	303.46	354.22	408.90
27	140.18	175.32	214.38	257.37	304.27	355.10	409.84
28	140.74	175.94	215.07	258.12	305.09	355.98	410.79
29	141.29	176.56	215.75	258.87	305.90	356.86	411.73
30	141.85	177.18	216.44	259.62	306.72	357.74	412.68

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

h	8 ^m	9 ^m	10 ^m	11 ^m	12 ^m	13 ^m	14 ^m
	"	"	"	"	"	"	"
30 ^o	141.85	177.18	216.44	259.62	306.72	357.74	412.68
31	142.40	177.80	217.12	260.37	307.54	358.62	413.63
32	142.96	178.43	217.81	261.12	308.36	359.51	414.59
33	143.52	179.05	218.50	261.88	309.18	360.39	415.54
34	144.08	179.68	219.19	262.64	310.00	361.28	416.49
35	144.64	180.30	219.88	263.39	310.82	362.17	417.44
36	145.20	180.93	220.58	264.15	311.65	363.07	418.40
37	145.76	181.56	221.27	264.91	312.47	363.96	419.35
38	146.33	182.19	221.97	265.68	313.30	364.85	420.31
39	146.89	182.82	222.66	266.44	314.12	365.75	421.27
40	147.46	183.46	223.36	267.20	314.95	366.64	422.23
41	148.03	184.09	224.06	267.96	315.78	367.53	423.19
42	148.60	184.72	224.76	268.73	316.61	368.42	424.15
43	149.17	185.35	225.46	269.49	317.44	369.31	425.11
44	149.74	185.99	226.14	270.26	318.27	370.21	426.07
45	150.31	186.63	226.82	271.02	319.10	371.11	427.04
46	150.88	187.27	227.51	271.79	319.94	372.01	428.01
47	151.45	187.91	228.20	272.56	320.78	372.91	428.97
48	152.03	188.55	228.89	273.34	321.62	373.82	429.93
49	152.61	189.19	229.58	274.11	322.45	374.72	430.90
50	153.19	189.83	230.27	274.88	323.29	375.62	431.87
51	153.77	190.47	230.96	275.65	324.13	376.52	432.84
52	154.35	191.12	231.65	276.43	324.97	377.43	433.82
53	154.93	191.76	232.34	277.20	325.81	378.34	434.79
54	155.51	192.41	233.03	277.98	326.66	379.26	435.76
55	156.09	193.06	233.72	278.76	327.50	380.17	436.73
56	156.67	193.71	234.41	279.55	328.35	381.08	437.71
57	157.25	194.36	235.10	280.33	329.19	381.99	438.69
58	157.84	195.01	235.79	281.12	330.04	382.90	439.67
59	158.43	195.66	236.48	281.90	330.89	383.82	440.65

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

<i>h</i>	15 ^m	16 ^m	17 ^m	18 ^m	19 ^m	20 ^m	21 ^m
	"	"	"	"	"	"	"
0 ^s	441.63	502.46	567.2	635.9	708.4	784.9	865.3
1	442.62	503.50	568.3	637.0	709.7	786.2	866.6
2	443.60	504.55	569.4	638.2	710.9	787.5	868.0
3	444.58	505.60	570.5	639.4	712.1	788.8	869.4
4	445.56	506.65	571.6	640.6	713.4	790.1	870.8
5	446.55	507.70	572.8	641.7	714.6	791.4	872.1
6	447.54	508.76	573.9	642.9	715.9	792.7	873.5
7	448.53	509.81	575.0	644.1	717.1	794.0	874.9
8	449.51	510.86	576.1	645.3	718.4	795.4	876.3
9	450.50	511.92	577.2	646.5	719.6	796.7	877.6
10	451.50	512.98	578.4	647.7	720.9	798.0	879.0
11	452.49	514.03	579.5	648.9	722.1	799.3	880.4
12	453.48	515.09	580.6	650.0	723.4	800.7	881.8
13	454.48	516.15	581.7	651.2	724.6	802.0	883.2
14	455.47	517.21	582.9	652.4	725.9	803.3	884.6
15	456.47	518.27	584.0	653.6	727.2	804.6	886.0
16	457.47	519.34	585.1	654.8	728.4	806.0	887.4
17	458.47	520.40	586.2	656.0	729.7	807.3	888.8
18	459.47	521.47	587.4	657.2	730.9	808.6	890.2
19	460.47	522.53	588.5	658.4	732.2	809.9	891.6
20	461.47	523.60	589.6	659.6	733.5	811.3	893.0
21	462.48	524.67	590.8	660.8	734.7	812.6	894.4
22	463.48	525.74	591.9	662.0	736.0	813.9	895.8
23	464.48	526.81	593.0	653.2	737.3	815.2	897.2
24	465.49	527.89	594.2	664.4	738.5	816.6	898.6
25	466.50	528.96	595.3	665.6	739.8	817.9	900.0
26	467.51	530.03	596.5	666.8	741.1	819.2	901.4
27	468.52	531.11	597.6	668.0	742.3	820.5	902.8
28	469.53	532.18	598.7	669.2	743.6	821.9	904.2
29	470.54	533.26	599.9	670.4	744.9	823.2	905.6
30	471.55	534.33	601.0	671.6	746.2	824.6	907.0

TABLA V.—Reducción al meridiano.

$$m = \frac{2 \operatorname{sen}^2 \frac{1}{2} h}{\operatorname{sen} 1''}$$

<i>h</i>	15 ^m	16 ^m	17 ^m	18 ^m	19 ^m	20 ^m	21 ^m
	"	"	"	"	"	"	"
30	471.55	534.33	601.0	671.6	746.2	824.6	907.0
31	472.57	535.41	602.2	672.8	747.4	825.9	908.4
32	473.58	536.50	603.3	674.1	748.7	827.3	909.8
33	474.60	537.58	604.5	675.3	750.0	828.6	911.2
34	475.62	538.67	605.6	676.5	751.3	829.9	912.6
35	476.64	539.75	606.8	677.7	752.6	831.2	914.0
36	477.65	540.83	607.9	678.9	753.8	832.6	915.5
37	478.67	541.91	609.1	680.1	755.1	833.9	916.9
38	479.70	543.00	610.2	681.3	756.4	835.3	918.3
39	480.72	544.09	611.4	682.6	757.7	836.6	919.7
40	481.74	545.18	612.5	683.8	759.0	838.0	921.1
41	482.77	546.27	613.7	685.0	760.2	839.3	922.5
42	483.79	547.36	614.8	686.2	761.5	840.7	923.9
43	484.82	548.45	616.0	687.4	762.8	842.0	925.3
44	485.85	549.55	617.2	688.7	764.1	843.4	926.8
45	486.88	550.64	618.3	689.9	765.4	844.7	928.2
46	487.91	551.73	619.5	691.1	766.7	846.1	929.6
47	488.94	552.83	620.6	692.4	768.0	847.5	931.0
48	489.97	553.93	621.8	693.6	769.3	848.9	932.4
49	491.01	555.03	623.0	694.8	770.6	850.2	933.8
50	492.05	556.13	624.1	696.0	771.9	851.6	935.2
51	493.08	557.24	625.3	697.3	773.1	852.9	936.6
52	494.12	558.34	626.5	698.5	774.5	854.3	938.1
53	495.15	559.44	627.6	699.7	775.7	855.7	939.5
54	496.19	560.55	628.8	701.0	777.1	857.1	940.9
55	497.23	561.65	630.0	702.2	778.4	858.4	942.3
56	498.28	562.76	631.2	703.5	779.7	859.8	943.8
57	499.32	563.87	632.3	704.7	781.0	861.1	945.2
58	500.37	564.98	633.5	705.9	782.3	862.5	946.6
59	501.41	566.08	634.7	707.1	783.6	863.9	948.1

TABLA VI.—Reducción al meridiano. (Segunda parte.)

$$n = \frac{2 \operatorname{sen.}^2 \frac{1}{2} h}{\operatorname{sen.} 1''}$$

<i>h</i>	<i>n</i>	<i>h</i>	<i>n</i>	<i>h</i>	<i>n</i>
0 ^m 00 ^s	0 ^{''} .00	13 ^m 40 ^s	0 ^{''} .33	17 ^m 20 ^s	0 ^{''} .84
1 00	0 .00	" 50	0 .34	" 30	0 .88
2 00	0 .00	14 00	0 .36	" 40	0 .91
3 00	0 .00	" 10	0 .38	" 50	0 .95
4 00	0 .00	" 20	0 .39	18 00	0 .98
5 00	0 .01	" 30	0 .41	" 10	1 .02
6 00	0 .01	" 40	0 .43	" 20	1 .06
7 00	0 .02	" 50	0 .45	" 30	1 .09
8 00	0 .04	15 00	0 .47	" 40	1 .13
9 00	0 .06	" 10	0 .49	" 50	1 .18
10 00	0 .09	" 20	0 .52	19 00	1 .22
11 00	0 .14	" 30	0 .54	" 10	1 .26
12 00	0 .19	" 40	0 .56	" 20	1 .30
" 10	0 .20	" 50	0 .59	" 30	1 .35
" 20	0 .22	16 00	0 .61	" 40	1 .40
" 30	0 .23	" 10	0 .64	" 50	1 .44
" 40	0 .24	" 20	0 .67	20 00	1 .49
" 50	0 .25	" 30	0 .69	" 10	1 .54
13 00	0 .26	" 40	0 .72	" 20	1 .60
" 10	0 .28	" 50	0 .75	" 30	1 .65
" 20	0 .30	17 00	0 .78	" 40	1 .70
13 30	0 .31	17 10	0 .81	20 50	1 .76

TABLA VII.—Logaritmos del factor *k* para llevar en cuenta la variación del cronómetro en las reducciones al meridiano.

<i>v</i>	Log. <i>k</i>	<i>v</i>	Log. <i>k</i>	<i>v</i>	Log. <i>k</i>
-30 ^s	9.99970	-10 ^s	9.99990	+11 ^s	0.00011
29	71	9	91	12	12
28	72	8	92	13	13
27	73	7	93	14	14
26	74	6	94	15	15
25	75	5	95	16	16
24	76	4	96	17	17
23	77	3	97	18	18
22	78	2	98	19	19
21	79	- 1	9.99999	20	20
20	80	+ 1	0.00001	21	21
19	81	2	02	22	22
18	82	3	03	23	23
17	83	4	04	24	24
16	84	5	05	25	25
15	85	6	06	26	26
14	86	7	07	27	27
13	87	8	08	28	28
12	88	9	09	29	29
-11	9.99989	+10	0.00010	+30	0.00030

TABLA VIII.

Logaritmos del factor *v*.

$$v = 0.000277 n$$

<i>n</i>	Log. <i>v</i>	<i>n</i>	Log. <i>v</i>	<i>n</i>	Log. <i>v</i>	<i>n</i>	Log. <i>v</i>
00 ^{''}	— ∞	250 ^{''}	8.8404	500 ^{''}	9.1414	750 ^{''}	9.3175
10	7.4425	260	.8574	510	.1500	760	.3233
20	7.7435	3010	.8738	520	.1585	770	.3290
30	7.9196	1761	.8896	530	.1668	780	.3346
40	8.0445	1249	.9049	540	.1749	790	.3401
50	.1414	969	.9196	550	.1828	800	.3456
60	.2206	792	.9338	560	.1907	810	.3510
70	.2876	670	.9476	570	.1983	820	.3563
80	.3456	580	.9610	580	.2059	830	.3616
90	.3967	511	.9740	590	.2133	840	.3668
100	.4425	458	.9865	600	.2206	850	.3719
110	.4839	414	.9988	610	.2278	860	.3770
120	.5217	378	9.0107	620	.2394	870	.3820
130	.5564	347	.0223	630	.2418	880	.3870
140	.5886	322	.0335	640	.2487	890	.3919
150	.6186	300	.0445	650	.2554	900	.3967
160	.6466	280	.0553	660	.2620	910	.4015
170	.6729	263	.0657	670	.2685	920	.4063
180	.6977	248	.0759	680	.2750	930	.4110
190	.7212	235	.0859	690	.2813	940	.4156
200	.7435	223	.0957	700	.2876	950	.4202
210	.7647	212	.1052	710	.2937	960	.4247
220	.7849	202	.1146	720	.2998	970	.4292
230	.8042	193	.1237	730	.3058	980	.4337
240	8.8227	185	490	740	9.3117	990	9.4381
		177	87		58		44

TABLA IX.

Log. (1-μ)

$$\mu = 0.000277 m$$

<i>m</i>	Log. (1-μ)	<i>m</i>	Log. (1-μ)	<i>m</i>	Log. (1-μ)	<i>m</i>	Log. (1-μ)
100s.	9.98730	120s.	9.98532	140	9.98282	160s.	9.98031
101	768	121	519	141	269	161	018
102	755	122	507	142	257	162	9.98006
103	743	123	494	143	244	163	9.97993
104	730	124	482	144	232	164	981
105	718	125	469	145	219	165	998
106	706	126	457	146	207	166	955
107	693	127	444	147	194	167	943
108	681	128	432	148	182	168	930
109	668	129	419	149	169	169	918
110	656	130	407	150	157	170	905
111	644	131	394	151	144	171	892
112	631	132	382	152	132	172	880
113	619	133	369	153	119	173	867
114	606	134	357	154	107	174	855
115	594	135	344	155	94	175	842
116	582	136	332	156	81	176	829
117	569	137	319	157	69	177	817
118	557	138	307	158	56	178	804
119	9.98544	139	9.98294	159	9.98044	179	9.97772