

RATES OF CHRONOMETERS
ON TRIAL
FOR PURCHASE BY THE BOARD OF ADMIRALTY,
AT THE
ROYAL OBSERVATORY, GREENWICH.
1857.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY.

NAME or MAKER.	Num- ber.	Construction of Escapement and Balance, from the description furnished by the Maker.	(I).—WEEKLY SUMS OF DAILY RATES											
			Jan. 3-10	Jan. 10-17	Jan. 17-24	Jan. 24-31	Jan. 31 to Feb. 7-14	Feb. 7-14	Feb. 14-21	Feb. 21-28	Feb. 28 to Mar. 7-14	Mar. 7-14	Mar. 14-21	Mar. 21-28
Hornby	1300	2 Gridiron balance of Mr. Hartnup's construction.	+ 120	+ 188	+ 205	+ 165	+ 161	+ 199	+ 206	+ 163	+ 166	+ 107	+ 156	+ 123
J. Mairhead	2169	2 Poole's auxiliary compensation.	....	+ 70	+ 121	+ 99	+ 121	+ 169	+ 182	+ 172	+ 176	+ 140	+ 134	+ 141
Poole	2310	2 Auxiliary compensation to the balance, as in former years.	....	+ 135	+ 154	+ 156	+ 172	+ 123	+ 130	+ 134	+ 100	+ 95	+ 91	+ 114
Reid and Sons	1190	2 Auxiliary compensation to the balance, acting at low temperature.	....	....	+ 196	+ 224	+ 232	+ 228	+ 226	+ 234	+ 230	+ 223	+ 188	+ 109
Henningham	127	2 Auxiliary compensation, with two distinct balances.	+ 09	+ 19	+ 21	+ 25	+ 25	+ 30	+ 23	+ 03	+ 30	+ 03	+ 27	+ 27
Dent	2684	2 Dent's patent balance; see pamphlet, "On the Errors of Chronometers," p. 23.	....	....	+ 115	+ 145	+ 169	+ 212	+ 159	+ 229	+ 231	+ 219	+ 221	+ 209
Lister and Sons	582	2 Auxiliary compensation to the balance.	....	+ 154	+ 171	+ 261	+ 284	+ 230	+ 234	+ 217	+ 224	+ 182	+ 199	+ 165
Elffe	482	2 A new construction of balance (unpublished).	....	....	+ 225	+ 244	+ 250	+ 233	+ 232	+ 206	+ 211	+ 192	+ 197	+ 183
Clark and Son	2667	2 Poole's auxiliary compensation.	....	+ 19	+ 07	+ 44	+ 90	+ 63	+ 71	+ 40	+ 32	+ 53	+ 56	+ 99
Blackie	429	2 New auxiliary compensation to the balance (unpublished).	....	+ 22	+ 07	+ 07	+ 45	+ 23	+ 16	+ 29	+ 27	+ 50	+ 37	+ 28
Williamson	2287	2 Auxiliary compensation with double adjustment, acting on the pendulum spring.	....	+ 177	+ 183	+ 171	+ 149	+ 195	+ 170	+ 135	+ 140	+ 117	+ 129	+ 119
Webb	5346	2 Auxiliary compensation to the balance.	....	....	+ 109	+ 130	+ 124	+ 121	+ 103	+ 74	+ 88	+ 40	+ 65	+ 90
Frodsham & Baker	6109	2 Auxiliary compensation to the balance (unpublished).	....	+ 59	+ 105	+ 127	+ 168	+ 200	+ 211	+ 244	+ 234	+ 286	+ 271	+ 374
Reid and Sons	1158	2 Auxiliary compensation to the balance, acting at low temperature.	....	....	+ 195	+ 168	+ 139	+ 138	+ 143	+ 98	+ 41	+ 28	+ 24	+ 10
Sewill	1063	2 Auxiliary compensation to the balance, acting in cold.	....	....	+ 71	+ 70	+ 59	+ 25	+ 40	+ 100	+ 110	+ 127	+ 138	+ 185
Hutton	273	2 Elemental apparatus for diminishing errors at extreme temperatures, and for diminishing effect of magnetism.	....	....	+ 111	+ 129	+ 101	+ 95	+ 81	+ 80	+ 74	+ 54	+ 72	+ 204
Abbott	357	2 Telford's auxiliary to balance.	....	....	+ 19	+ 125	+ 130	+ 140	+ 249	+ 345	+ 386	+ 456	+ 437	+ 497
Hewitt and Son	2377	2 A new auxiliary compensation (unpublished).	....	....	+ 323	+ 298	+ 351	+ 349	+ 308	+ 312	+ 330	+ 265	+ 302	+ 272
Hewitt and Son	2389	2 A new auxiliary compensation (unpublished).	....	....	+ 556	+ 581	+ 600	+ 548	+ 496	+ 512	+ 493	+ 459	+ 427	+ 475
Holmes	102	2 Auxiliary compensation.	....	....	+ 442	+ 351	+ 298	+ 404	+ 425	+ 376	+ 359	+ 350	+ 305	+ 125
French	7005	2 Improved patent compensation for extreme ranges of temperature.	....	....	+ 471	+ 591	+ 519	+ 395	+ 371	+ 315	+ 363	+ 330	+ 271	+ 183
Frodsham & Baker	6102	2 Auxiliary compensation to the balance (unpublished). A dead seconds' beat.	....	+ 311	+ 436	+ 432	+ 486	+ 614	+ 684	+ 638	+ 673	+ 621	+ 680	+ 621
Chromometrical Thermometer .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Extremes of Temperature as shown by the Self-Registering Thermometer .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* During these weeks the Chronometers were placed to the external air outside a North window, excepting on the two last days of the week February 14-21

† During these weeks the Chronometers were exposed in the chamber of a stove heated by gas.

The rate given by the first five days of trial is in every case omitted.

AT THE ROYAL OBSERVATORY, GREENWICH, 1857.

IN THE ORDER OF TIME.

Mar. 28 to Apr. 4	April 4-11	April 11-18	April 18-25	April 25 to May 2	May 2-9	May 9-16	May 16-23	May 23-30	May 30 to June 6	June 6-13	June 13-20	June 20-27	June 27 to July 4	June 4-11	July 11-18	July 18-25	July 25 to Aug. 1	August 1-8
+ 145	+ 155	+ 108	+ 42	+ 06	+ 09	+ 45	+ 53	+ 26	+ 33	+ 16	+ 15	+ 88	+ 52	+ 30	+ 03	+ 22	+ 53	+ 31
- 210	- 205	- 201	- 219	- 221	- 104	- 88	- 97	- 110	- 98	- 102	- 104	- 176	- 145	- 109	- 56	- 43	- 57	- 71
- 175	- 173	- 97	- 218	- 159	- 92	- 100	- 76	- 77	- 79	- 69	- 69	- 130	- 101	- 48	- 158	- 109	- 37	- 41
- 225	- 277	- 183	- 251	- 204	- 105	- 67	- 74	- 54	- 65	- 71	- 49	- 167	- 148	- 150	- 43	- 38	- 36	- 46
- 08	+ 37	+ 151	+ 127	+ 195	+ 178	+ 107	+ 72	+ 73	+ 95	+ 100	+ 120	+ 163	+ 208	+ 244	+ 150	+ 160	+ 168	+ 175
- 183	- 122	- 29	+ 39	+ 07	+ 08	- 11	- 02	- 07	- 05	- 02	+ 11	- 61	- 03	+ 40	+ 88	+ 104	+ 112	+ 96
- 218	- 201	- 85	- 90	- 74	- 71	- 90	- 40	- 50	- 40	- 42	- 43	- 81	- 54	- 23	+ 23	+ 40	+ 43	+ 38
- 193	- 195	- 137	- 140	- 157	- 108	- 67	- 73	- 52	- 45	- 69	- 29	- 172	- 211	- 136	+ 09	+ 15	- 117	- 104
- 219	- 226	- 73	- 126	- 79	- 95	- 93	- 23	- 28	- 30	- 31	- 14	- 113	- 80	- 29	+ 54	+ 43	+ 15	+ 31
- 75	- 86	+ 53	+ 68	+ 113	+ 123	+ 132	+ 165	+ 135	+ 150	+ 160	+ 160	+ 30	+ 70	+ 109	+ 211	+ 225	+ 229	+ 245
- 30	- 33	+ 73	+ 113	+ 140	+ 90	+ 67	+ 20	+ 35	+ 19	+ 21	+ 43	+ 139	+ 148	+ 185	+ 26	+ 42	+ 65	+ 49
+ 95	+ 110	+ 120	+ 93	+ 117	+ 120	+ 133	+ 147	+ 166	+ 185	+ 204	+ 208	+ 231	+ 236	+ 245	+ 255	+ 285	+ 294	+ 301
+ 358	+ 407	+ 466	+ 499	+ 503	+ 522	+ 513	+ 562	+ 530	+ 565	+ 545	+ 597	+ 568	+ 603	+ 623	+ 651	+ 658	+ 668	+ 688
- 206	- 240	- 44	- 20	- 02	+ 57	+ 46	+ 59	+ 70	+ 115	+ 120	+ 216	...	...	- 276	- 70	- 47	- 34	- 46
+ 60	+ 54	+ 201	+ 195	+ 210	+ 265	+ 302	+ 307	+ 306	+ 321	+ 314	+ 333	+ 120	+ 183	+ 242	+ 391	+ 419	+ 422	+ 408
- 270	- 275	- 60	+ 45	+ 105	+ 100	+ 97	+ 63	+ 100	+ 88	+ 56	+ 63	- 273	- 181	- 123	+ 105	+ 110	+ 133	+ 127
+ 504	+ 651	+ 689	+ 696	+ 675	+ 658	+ 682	+ 684	+ 696	+ 735	+ 775	+ 824	+ 807	+ 864	+ 913	+ 885	+ 915	+ 937	+ 963
- 317	- 290	- 19	+ 115	+ 32	+ 43	+ 10	+ 14	+ 51	+ 49	+ 81	+ 83	- 134	- 54	- 03	+ 225	+ 236	+ 275	+ 260
- 412	- 317	- 255	- 324	- 333	- 189	- 94	- 25	+ 01	- 30	+ 30	- 20	- 57	- 58	- 40	+ 140	+ 210	+ 265	+ 261
+ 160	+ 240	+ 335	+ 126	+ 20	+ 150	+ 233	+ 322	+ 280	+ 250	+ 305	+ 200	+ 303	+ 359	+ 423	+ 456	+ 492	+ 432	+ 455
- 456	- 530	- 713	...	- 612	- 382	- 491	- 467	- 485	- 469	- 446	- 460	- 407	- 469	- 428	- 432	- 430	- 419	- 435
- 456	...	...	...	- 339	- 198	- 614	- 109	- 64	- 14	- 11	- 27	- 49	- 20	- 15	+ 134	+ 126	+ 168	+ 187
†	†	†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
- 2732	- 2910	- 1917	+ 6505	+ 12670	+ 9136	+ 2303	- 475	+ 1675	+ 315	- 510	+ 47	- 23972	- 23815	- 22915	- 6785	- 6407	- 4823	- 6115
84-103	97-105	72-96	48-63	44-55	49-58	55-71	60-72	60-72	60-72	60-72	60-72	60-72	60-72	60-72	60-72	60-72	60-72	60-72

The order of arrangement of the Chronometers in these Tables is determined solely by consideration of their irregularities of rate, as expressed in the columns "Difference between the Greatest and Least" and "Greatest Difference between one Week and the next," without reference to the duration of the trial. The Chronometer Reid and Sons 1158, having been found stopped on June 22, was taken away by the maker for examination on June 24, and returned for further trial on July 1; as the position of the Chronometer results from a consideration of its rate on June 20 only, it is therefore not necessarily correct.

The Chronometer French 7005 was taken away by the maker for examination on April 20 in consequence of its having been observed on several days to stop in winding. It was returned for further trial on 'pril 25. On account of this interruption its rates are not comparable with those of the other Chronometers, and it is omitted in the following Table and in the Abstract.

The Chronometer Frodsham and Baker 6102 was taken away by the maker for examination on April 13 in consequence of the second's hand having been observed frequently to remain fixed for a short time, afterwards going on again. It was returned for further trial on April 20. On account of this interruption its rates are not comparable with those of the other chronometers, and it is omitted in the following Table and in the Abstract.

NAME OF MAKER.	Num- ber.	Whether or Days.	Construction of Escapement and Balance, from the description furnished by the Maker.	(II)—WEEKLY SUMS OF DAILY RATES IN THE ORDER OF TEMPERATURE											
				Jan. 24-31 *	Jan. 31 to Feb. 7 *	Jan. 10-17 *	Jan. 17-24 *	Feb. 7-14 *	Jan. 31-10 *	Feb. 14-21 *	March 7-14	Feb. 21-28 Mar. 7	Feb. 28 to Mar. 7	April 28 to May 5	March 14-21
Hornby	1300	2	Gridiron balance of Mr. Hartnup's construction.	-163	-161	-188	-205	-199	-120	-206	-107	-165	-166	-96	-156
J. Mairhead	2169	2	Poole's auxiliary compensation.	-99	-121	-70	-121	-169	....	-182	-140	-172	-176	-221	-134
Poole	2310	2	Auxiliary compensation to the balance, as in former years.	-156	-172	-135	-154	-123	....	-130	-55	-95	-100	-150	-91
Reid and Sons	1190	2	Auxiliary compensation to the balance, acting at low temperatures.	-294	-292	....	-196	-228	....	-226	-223	-234	-230	-204	-188
Henningham	127	2	Auxiliary compensation, with two distinct balances.	-25	-25	-19	-21	-30	+09	-23	-03	+03	-20	+195	-27
Dent	2684	2	Dent's patent balance; see pamphlet "On the Errors of Chronometers," p. 25.	-143	-169	....	-115	-212	....	-159	-219	-229	-251	+07	-221
Lister and Sons	582	2	Auxiliary compensation to the balance.	-261	-284	-154	-171	-230	....	-224	-192	-217	-224	-74	-199
Elffe	483	2	A. new construction of balance (unpublished).	-204	-250	....	-225	-253	....	-293	-192	-206	-211	-157	-107
Clark and Son	2667	2	Poole's auxiliary compensation.	-44	-90	+19	-07	-63	....	-71	-93	-40	-52	-79	-56
Blackie	429	2	New auxiliary compensation to the balance (unpublished).	+07	+45	-22	-07	+23	....	+16	+50	+29	+27	+113	+37
Williamson	2287	2	Auxiliary compensation with double adjustment, acting on the pendulum spring.	-171	-149	-177	-153	-195	....	-170	-117	-135	-140	+140	-129
Webb	5346	2	Auxiliary compensation to the balance.	-130	-124	....	-109	-121	....	-103	-40	-74	-88	+117	-65
Froddham & Baker	6109	2	Auxiliary compensation to the balance, (unpublished).	+127	+168	+59	+105	+300	....	+211	+286	+344	+249	+503	+271
Reid and Sons	1138	2	Auxiliary compensation to the balance, acting at low temperatures.	-168	-139	....	-155	-138	....	-143	-28	-98	-41	-02	+24
Sewill	1063	2	Auxiliary compensation to the balance, acting in cold.	-70	-59	....	-71	+25	....	+40	+127	+100	+110	+210	+138
Hutton	273	2	Elemental compensation for diminishing errors at extra-low temperatures, and for diminishing effect of magnetism.	-129	-101	....	-111	-93	....	-81	-24	-80	-74	+103	-72
Abbott	337	2	Elffe's auxiliary to balance.	+125	+130	....	+19	+140	....	+349	+456	+345	+386	+675	+437
Hewitt and Son	2377	2	A new auxiliary compensation (unpublished).	-298	-351	....	-323	-349	....	-308	-265	-312	-330	+32	-302
Hewitt and Son	2389	8	A new auxiliary compensation (unpublished).	-581	-600	....	-556	-548	....	-496	-459	-512	-493	-333	-437
Holmes	102	2	Auxiliary compensation.	-301	-298	....	-442	-464	....	-425	-350	-376	-259	+20	-205
Chronometrical Thermometer .....	...	...	.....	+5813.0	+2781.5	+2179.5	+2127.5	+2022.5	+1959.0	+1820.6	+1704.0	+1529.4	+1371.6	+1267.0	+1138.8
Extremes of Temperature as shown by the Self-Registering Thermometer .....	...	...	.....	21-41	22-46	27-49	31-49	32-50	28-49	30-53	41-51	45-52	46-55	44-55	45-57

* During these weeks the Chronometers were exposed to the external air outside a North window, excepting on the two last days of the week February 14-21.

† During these weeks the Chronometers were placed in the chamber of a stove heated by gas.

The rate given by the first five days of trial is in every case omitted.

AS DETERMINED BY THE CHRONOMETRICAL THERMOMETER.															
May 2-9	April 18-25	May 9-16	May 23-30	May 30 to June 6	June 13-20	May 16-23	June 6-13	July 25 to Aug. 1	Aug. 1-8	July 18-25	July 11-18	March 21-28	April 11-18	July 4-11	June 27 to July 4
-09	-42	-45	-26	-53	-15	-53	-56	+53	+31	+22	+03	-122	-108	-50	-52
-104	-219	-88	-110	-98	-104	-97	-102	-57	-71	-43	-56	-141	-201	-109	-146
-92	-218	-100	-77	-79	-69	-76	-69	-37	-41	-109	-156	-114	-97	-48	-101
-105	-251	-67	-54	-65	-49	-74	-71	-36	-46	-38	-45	-109	-183	-150	-148
+178	+127	+107	+73	+95	+120	+72	+100	+168	+175	+160	+150	-27	+151	+244	+208
+08	+39	-11	-07	-05	+11	-02	-02	+112	+96	+104	+88	-209	+29	+40	-03
-71	-90	-90	-50	-40	-43	-40	-42	+38	+40	+25	-165	-85	-25	-54	-81
-108	-140	-67	-32	-45	-29	-73	-69	-117	-124	+15	+09	-183	-137	-136	-211
-35	-126	-25	-28	-30	-14	-32	-31	+15	+31	+45	+54	-99	-75	-39	-80
+123	+68	+152	+135	+150	+160	+165	+160	+229	+245	+225	+211	+28	+55	+109	+70
+20	+113	+67	+35	+19	+43	+20	+21	+65	+49	+42	+26	-119	+73	+185	+148
+120	+93	+133	+166	+185	+208	+147	+204	+294	+301	+285	+255	+90	+120	+245	+236
+523	+49	+513	+530	+560	+597	+562	+545	+668	+688	+653	+651	+374	+466	+632	+603
+57	-20	+46	+70	+115	+216	+59	+120	-34	-46	-47	-70	-10	-44	-276	....
+265	+195	+302	+306	+321	+333	+307	+314	+422	+408	+419	+391	+185	+201	+242	+183
+100	+45	+97	+100	+88	+63	+63	+56	+133	+127	+110	+105	-204	-60	-123	-181
+658	+696	+682	+696	+735	+824	+684	+775	+597	+963	+915	+895	+497	+689	+915	+864
+43	+115	+10	+51	+49	+83	+14	+81	+275	+260	+236	+225	-272	-19	-05	-54
-189	-324	-94	+01	-30	-20	-25	+30	+265	+261	+210	+140	+125	-255	-40	-58
+150	+126	+233	+280	+290	+322	+305	+482	+495	+492	+456	+435	+339	+423	+359	+303
+9130	+6505	+2305	+1075	+315	+47	-475	-515	-4823	-6110	-6467	-6783	-14667	-19176	-22915	-23815
49-58	48-63	55-71	60-67	59-74	59-73	60-72	60-75	67-75	65-81	69-78	66-80	69-87	72-96	83-99	79-100
88-100	86-100	84-100	82-100	80-100	78-100	76-100	74-100	72-100	70-100	68-100	66-100	64-100	62-100	60-100	58-100

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The Chronometers French 7005 and Froddham & Baker 6102 are omitted on the above table, as, for reasons given in the notes to the first table, no satisfactory conclusions could be obtained from any further discussion of their rates.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY.

NAME OF MAKER.	Number.	Whether 2 or 3 Days.	Construction of Escapement and Balance, from the description furnished by the Maker.	(III)—ABSTRACT OF THE PRINCIPAL				
				First Day of First Week of Rating.	Last Day of Last Week of Rating.	Number of Weeks.	Least Weekly Sum.	In what Week.
Hornby	1300	2	Gridiron balance of Mr. Hartnup's construction.	January 3	August 8	31	-20.6	February 14 to 21*
J. Muirhead	2169	2	Poole's auxiliary compensation.	January 10	August 8	30	-22.1	April 25 to May 2
Poole	2310	2	Auxiliary compensation to the balance, as in former years.	January 10	August 8	30	-21.8	April 18 to 25
Reid and Sons	1190	2	Auxiliary compensation to the balance, acting at low temperature.	January 17	August 8	29	-29.4	January 24 to 31*
Henningham	127	2	Auxiliary compensation, with two distinct balances.	January 3	August 8	31	-3.0	February 7 to 14*
Dent	2684	2	Dent's patent balance, see pamphlet, "On the Errors of Chronometers," p. 23.	January 17	August 8	29	-25.1	February 28 to March 7
Lister and Sons	582	2	Auxiliary compensation to the balance.	January 10	August 8	30	-28.4	January 31 to February 7*
Effie	482	2	A new construction of balance (unpublished).	January 17	August 8	29	-25.0	January 31 to February 7*
Clark and Son	2667	2	Poole's auxiliary compensation.	January 10	August 8	30	-22.6	April 4 to 11†
Blackie	429	2	New auxiliary compensation to the balance (unpublished).	January 10	August 8	30	-8.6	April 4 to 11†
Williamson	2287	2	Auxiliary compensation with double adjustment, acting on the pendulum spring.	January 10	August 8	30	-19.5	February 7 to 14*
Webb	5346	2	Auxiliary compensation to the balance.	January 17	August 8	29	-13.0	January 24 to 31*
Frodsham and Baker	6109	2	Auxiliary compensation to the balance (unpublished).	January 10	August 8	30	+5.9	January 10 to 17*
Reid and Sons	1158	2	Auxiliary compensation to the balance, acting at low temperature.	January 17	June 20	22	-24.0	April 4 to 11†
Sewill	1063	2	Auxiliary compensation to the balance, acting in cold.	January 17	August 8	29	-7.1	January 17 to 24*
Hutton	273	2	Elemental compensation for diminishing errors at extreme temperatures, and for diminishing effect of magnetism.	January 17	August 8	29	-27.5	April 4 to 11†
Abbott	357	2	Effie's auxiliary to balance.	January 17	August 8	29	+1.9	January 17 to 24*
Hewitt and Son	2377	2	A new auxiliary compensation (unpublished).	January 17	August 8	29	-35.1	January 31 to February 7*
Hewitt and Son	2389	8	A new auxiliary compensation (unpublished).	January 17	August 8	29	-60.0	January 31 to February 7*
Holmes	102	2	Auxiliary compensation.	January 17	August 8	29	-46.4	February 7 to 14*

* During these weeks the Chronometers were exposed to the external air outside a North window, excepting on the two first days of the week February 14-21.

† During these weeks the Chronometers were placed in the chamber of a stove heated by gas.

The rate given by the first five days of trial is in every case omitted.

AT THE ROYAL OBSERVATORY, GREENWICH, 1857.

CHANGES OF RATE.					NAME OF MAKER.	Number.
Greatest Weekly Sum.	In what Week.	Difference between the Greatest and Least.	Greatest Difference between one Week and the next.	Before and after what Day.		
+ 3.3	July 25 to Aug. 1	23.9	7.3	June 20 †	Hornby	1300
- 4.3	July 18 to 25	17.8	11.7	May 2	J. Muirhead	2169
- 3.7	July 25 to Aug. 1	18.1	12.1	† April 18	Poole	2310
- 3.6	July 25 to Aug. 1	23.8	11.6	June 20 †	Reid and Sons	1190
+ 2.4	July 4 to 11 †	27.4	11.4	† April 11 †	Henningham	127
+ 11.2	July 25 to Aug. 1	26.3	9.3	† April 11 †	Dent	2684
+ 4.3	July 25 to Aug. 1	32.7	11.6	† April 11 †	Lister and Sons	582
+ 1.3	July 18 to 25	26.5	14.8	June 20 †	Effie	482
+ 5.4	July 11 to 18	28.0	15.1	† April 11 †	Clark and Son	2667
+ 24.5	August 1 to 8	33.1	14.1	† April 11 †	Blackie	429
+ 18.5	July 4 to 11 †	38.0	15.9	† July 11	Williamson	2287
+ 20.1	August 1 to 8	48.1	15.5	March 21 †	Webb	5346
+ 68.8	August 1 to 8	62.9	10.3	March 21 †	Frodsham and Baker	6109
+ 21.6	June 13 to 20	45.6	19.6	{ † March 28 † † April 11 † }	Reid and Sons	1158
+ 42.2	July 25 to Aug. 1	49.3	21.5	June 20 †	Sewill	1063
+ 13.3	July 25 A ug. 1	40.8	33.6	June 20 †	Hutton	273
+ 96.3	August 1 to 8	94.4	10.9	* February 14 *	Abbott	357
+ 27.5	July 25 to Aug. 1	62.6	27.1	† April 11 †	Hewitt and Son	2377
+ 26.5	July 25 to Aug. 1	86.5	16.0	† July 11	Hewitt and Son	2389
+ 49.5	August 1 to 8	95.9	33.0	March 21 †	Holmes	102

The order of arrangement of the Chronometers in these Tables is determined solely by consideration of their irregularities of rate, as expressed in the columns "Difference between the Greatest and Least" and "Greatest Difference between one Week and the next," without reference to the duration of the Trial. The Chronometer Reid and Son 1158, having been found stopped on July 22, was taken away from the examination on June 25, and returned for further trial on July 1; as the position of the Chronometer results from a consideration of its rates to June 20 only, it is therefore not necessary to correct.

The Chronometers French 7005 and Frodsham and Baker 6102 are omitted in the Abstract for reasons given in the notes to the first Table.