

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH,

FROM 1891 JULY 4 TO 1892 JANUARY 23.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY,

(I.) WEEKLY RATES

NAME OF MAKER.	No.	Whether 2 or 8 Days.	Construction of Escapement and Balance, from the Description furnished by the Maker.	July	July	July	July 25	Aug.	Aug.	Aug.	Aug.	Aug. 29	Sept.	Sept.	Sept.
				4-11	11-18	18-25	to Aug. 1	1-8	8-15	15-22	22-29	to Sept. 5	5-12	12-19	19-26
Kullberg.....	5102	2	Reversed detent; short spring.	-0.5	-0.6	-0.5	-0.8	0.0	-2.4	-3.2	-3.5	-1.9	-2.8	-1.5	-0.8
Johannsen & Co.	3863	2	Auxiliary acting in heat.	+1.1	+1.2	+1.1	+2.7	+4.2	+2.8	+3.7	+5.3	+8.2	+2.3	+1.8	+3.6
Kullberg.....	5208	2	Reversed detent; short spring.	-2.6	-2.7	-3.3	-2.6	-3.4	-5.0	-3.4	-3.2	-0.2	-2.2	+0.5	+1.4
Uhrig.....	525	2	Uhrig's continually acting auxiliary.	-1.3	-0.5	+1.5	+1.6	+1.0	-0.8	+1.5	0.0	+2.5	-4.2	-4.7	-3.6
Uhrig.....	517	2	Uhrig's continually acting auxiliary.	-6.8	-7.5	-6.8	-5.8	-5.0	-4.1	-6.5	-4.5	-2.0	+1.3	+0.3	-0.5
Uhrig.....	526	2	Uhrig's continually acting auxiliary.	-8.6	-7.4	-6.9	-6.7	-5.4	-5.9	-5.4	-3.5	+1.0	+0.2	+1.8	+2.0
Kullberg.....	5157	2	Reversed detent; short spring.	-2.8	-3.0	-2.7	-3.5	-3.5	-4.3	-4.2	-4.3	-2.7	-4.5	-4.1	-5.1
Kullberg.....	5176	2	Reversed detent; short spring.	-3.0	-2.7	-3.2	-3.3	-3.4	-3.9	-2.4	-1.7	+4.0	+4.0	+6.8	+6.0
Uhrig.....	521	2	Uhrig's continually acting auxiliary.	-4.0	-4.5	-4.7	-3.7	-2.0	-3.6	-3.4	-1.3	-0.8	+0.6	+2.1	+1.6
Kullberg.....	5088	2	Reversed detent; short spring.	-1.2	-2.1	-1.7	-1.7	-1.7	-2.1	-0.9	-0.7	+2.2	+0.9	+2.9	+5.3
Johannsen & Co.	4107	8	Auxiliary acting in cold.	+5.7	+6.1	+6.3	+6.2	+7.4	+5.5	+6.7	+5.9	+9.4	+5.1	+4.1	+5.7
Gardner.....	3810	2	Auxiliary acting in heat and cold.	+5.0	+5.6	+5.6	+6.8	+6.8	+5.4	+6.5	+7.5	+12.4	+11.9	+14.1	+13.3
Johannsen & Co.	3794	2	Auxiliary acting in heat and cold.	+7.1	+6.8	+7.5	+9.3	+6.8	+5.2	+1.5	+1.1	+5.2	-2.2	-1.1	-2.5
Johannsen & Co.	4109	8	Auxiliary acting in heat.	+16.0	+15.3	+16.6	+19.9	+19.8	+15.4	+17.1	+17.5	+24.7	+18.3	+17.5	+20.0
Kirk & Co.....	3577	2	Auxiliary acting in heat and cold.	-0.6	+1.5	+3.8	+1.4	+2.4	+2.2	+3.0	+0.9	+5.9	+1.3	-0.6	-0.6
Johannsen & Co.	3898	2	Auxiliary acting in heat.	-3.3	-5.6	-6.1	-3.0	-2.8	-3.6	-2.5	-1.9	+7.6	+3.7	+2.8	+1.9
Isaac.....	1786	2	Auxiliary compensation.	-2.0	-0.1	+1.5	+0.6	+2.0	+1.9	-0.5	+2.3	+0.2	-7.6	-5.0	+2.3
Johannsen & Co.	4051	8	Auxiliary acting in heat.	-6.9	-10.3	-10.3	-10.1	-9.9	-10.2	-8.5	-7.3	+1.2	-1.7	+0.2	+1.1
Kullberg.....	5054	2	Reversed detent; short spring.	-4.1	-3.9	-3.6	-4.4	-3.8	-3.8	-4.0	-3.8	+2.8	+0.1	+0.7	+0.1
Keys.....	984	2	Auxiliary compensation.	+9.4	+10.1	+11.6	+14.0	+14.5	+12.1	+16.6	+15.8	+18.4	+11.8	+14.8	+16.6
Hume.....	2050	2	Auxiliary acting in heat.	+2.3	+1.3	+1.7	+3.6	+3.6	+0.1	+1.8	+1.8	+1.0	-5.8	-5.7	-6.9
Pyott.....	860	2	Ordinary balance with slight alteration.	-0.2	+1.2	+1.8	+0.2	-0.8	+0.6	+2.5	+0.7	+7.1	-1.8	-0.5	+7.3
Glover.....	385	2	Ordinary balance with gridiron	-2.6	+0.1	+0.2	+1.4	+3.0	+2.6	+4.2	+4.8	+2.5	-5.0	-4.5	+0.1
Usher & Cole...	3877	2	Ordinary balance. [auxiliary.	-5.6	-5.8	-5.8	-4.3	-4.2	-6.9	-5.6	-4.5	-8.1	-18.7	-18.0	-7.7
Johannsen & Co.	4034	2	Auxiliary acting in cold.	+2.7	+3.8	+4.4	+7.9	+8.4	+6.6	+6.8	+9.5	+9.5	+3.2	+3.6	+8.6
Johannsen & Co.	3837	2	Auxiliary acting in heat. [extremes.	-4.2	-3.6	-3.2	-2.2	-2.0	-2.1	-5.0	-5.4	+5.3	-1.7	-4.7	-6.1
Kendal & Dent...	1719	2	Auxiliary compensation acting in	-6.0	-4.3	-4.8	-5.3	-5.5	-5.9	-4.3	-3.8	-0.4	+0.8	+2.4	+3.7
Clerke.....	3711	2	Ordinary balance.	-3.9	-3.6	-3.5	-4.0	-4.1	-3.1	-3.5	-3.6	-8.5	-19.2	-19.8	-9.5
Johannsen & Co.	3711	2	Auxiliary acting in heat.	+1.0	+1.3	-0.8	-0.7	+2.7	-7.7	-2.3	-4.8	-5.4	-7.6	-9.4	-11.1
Pyott.....	914	2	Ordinary balance with slight alteration.	+4.7	+3.4	+2.3	+5.8	+4.2	+3.2	+3.2	+4.6	+12.4	+2.6	+1.1	+8.5
Webb.....	2916	2	Paillard's non-magnetic balance and	-1.4	-4.5	-7.1	-9.9	-12.1	-13.2	-13.7	-16.1	-10.9	-19.2	-14.5	-4.4
Moore.....	1818	2	Auxiliary acting in heat. [spring.	+10.8	+10.2	+9.7	+13.6	+15.4	+12.3	+14.7	+18.2	+19.9	+11.4	+13.2	+18.5
Robinson & Wells	2847	2	Auxiliary compensation.	+3.8	+4.5	+2.3	+2.9	+4.5	+1.9	+3.1	+4.3	+13.7	+20.4	+13.4	+3.5
Isaac.....	1772	2	Auxiliary compensation. [spring.	-6.4	-5.0	-4.5	-3.5	-3.0	-3.0	-2.8	-1.9	+5.1	-1.4	0.0	+3.4
Haswell & Sons	5002	2	Paillard's non-magnetic balance and	+2.5	+2.5	+1.9	+3.2	+4.4	+4.9	+4.0	+5.0	+4.6	+6.7	+11.5	+14.1
Pyott.....	916	2	Ordinary balance with slight alteration.	+6.5	+9.9	+8.6	+8.4	+9.2	+8.6	+10.6	+12.1	+20.5	+8.1	+7.8	+13.2
Pyott.....	862	2	Ordinary balance with slight alteration.	+10.8	+11.3	+11.6	+12.9	+14.7	+13.0	+14.9	+15.4	+11.6	+1.4	-1.4	+3.9
Robinson & Wells	2849	2	Auxiliary compensation.	+5.3	+5.8	+4.7	+5.9	+5.0	0.0	+0.4	-0.3	-0.9	-5.5	-4.0	-7.5
Moore.....	1811	2	Auxiliary acting in heat.	+1.9	+0.8	+1.4	+2.9	-0.1	-3.4	+1.8	-1.0	-0.3	-0.6	+1.4	-3.0
Hume.....	2048	2	Auxiliary acting in heat.	-5.5	-3.4	-0.1	+1.1	+2.4	-1.1	-1.6	+1.9	+12.4	+2.6	+5.5	+10.1
Schoof.....	6065	2	Schoof's resilient lever escapement.	+17.8	+17.7	+14.9	+17.2	+15.3	+15.0	+14.8	+17.3	+21.8	+21.8	+19.8	+30.6
Usher & Cole...	3877	2	Ordinary balance.	+10.6	+12.2	+11.2	+9.9	+10.1	+12.1	+15.4	+13.8	+17.2	+7.5	+8.8	+16.5
Johannsen & Co.	4017	2	Auxiliary acting in cold. [extremes.	+2.9	+2.6	+3.7	+5.7	+6.5	+5.8	+5.0	+6.5	+9.7	-4.7	-5.3	+5.1
Kendal & Dent...	924	2	Auxiliary compensation acting in	-7.5	-8.5	-8.9	-8.6	-4.9	-7.5	-4.3	-2.1	+2.8	0.0	+3.4	+11.1
Keys.....	924	2	Auxiliary compensation. [in cold.	+9.1	+8.8	+8.4	+11.4	+11.7	+5.8	+10.0	+11.0	+6.7	-4.8	-9.4	+1.6
Glover.....	366	2	Ordinary balance, with auxiliary acting	+11.3	+11.4	+7.6	+4.1	+1.1	+7.9	+5.5	+7.3	+6.0	+4.7	+7.1	+8.7
Johannsen & Co.	3793	2	Auxiliary acting in cold. [spring.	-8.6	-9.9	-9.1	-9.2	-10.8	-10.1	-8.8	-9.8	+8.9	+1.4	+2.3	+4.4
Haswell & Sons	2921	2	Paillard's non-magnetic balance and	...	-8.3	-6.5	-7.2	-7.1	-6.9	-6.6	-7.6	-3.5	+3.9	+19.1	+27.7
Schoof.....	6059	2	Schoof's resilient lever escapement.	+5.9	+6.5	+1.1	+3.4	+1.0	-2.7	+3.7	+0.4	-11.9	-32.0	-32.3	-18.1
Muter.....	508	2	Auxiliary compensation.	+3.6	+2.6	+2.2	+4.3	+5.9	+3.4	+4.2	+6.2	+4.2	+0.6	+3.8	+6.1
Webb.....	2922	2	Paillard's non-magnetic balance and	-0.3	-2.2	-5.4	-5.1	-4.4	-6.2	-4.6	-6.5	-2.4	-5.2	-14.6	-0.6
Chronometrical Ther-				-408.8	-546.6	-589.2	-326.4	-313.2	-456.0	-450.0	-370.0	-2159.0	-3304.6	-3439.4	-2498.8
Mean Weekly Tempera-				63.9	65.9	65.6	63.0	62.3	65.0	64.9	63.6	85.6	97.9	98.0	86.9
Extremes of Tempera-				62.8-66.3	63.0-71.6	63.8-68.4	60.8-66.2	60.8-65.8	62.9-68.9	62.0-67.2	62.5-65.0	81.0-89.9	92.0-99.4	95.4-100.0	80.5-88.8

The sign + indicates that the rate is gaining.

† During these weeks the Chronometers were placed in the chamber of a stove heated by jets of gas, the temperature being regulated by Kullberg's automatic governor which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter.

The Chronometrical Thermometer differs from an ordinary Chronometer only in the construction of the balance, the positions of the metals forming the compensating rims being reversed. By this arrangement the effect of temperature is much magnified.

(I.) WEEKLY RATES

(II.) WEEKLY RATES IN THE

[illegible]

Chromometrical Ther- mometer.....		+1274.0	+1169.8	+1169.2	+972.3	+746.3	+512.2	+438.3	+416.0	+405.5	+237.2	+99.6	+51.6
Mean Weekly Tempera- ture.....		46° 2	47° 5	47° 3	49° 7	50° 2	54° 7	56° 1	57° 6	58° 2	57° 0	59° 7	59° 1
Extremes of Tempera- ture as shown by the thermometer.....		40° 5	56° 0	42° 9	53° 2	42° 0	44° 3	56° 8	43° 0	58° 0	47° 8	51° 0	46° 3

The sign + indicates that the rate is gaining.

† During these weeks the Chronometers were placed in the chamber of a stove heated by jets of gas, the temperature being regulated by Kullberg's automatic governor which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter.

The Chronometrical Thermometer differs from an ordinary Chronometer only in the construction of the balance, the positions of the metals forming the compensating rims being reversed. By this arrangement the effect of temperature is much magnified.

ORDER OF TEMPERATURE AS DETERMINED GENERALLY BY THE CHRONOMETRICAL THERMOMETER.

ORDER OF TEMPERATURE AS DETERMINED GENERALLY BY THE CHRONOTHERMIST															NAME		No.
Sept. 26 to Oct. 5	Aug. 1—8	Aug. 1—5	Aug. 22—29	Aug. 4—11	Aug. 15—22	Aug. 8—15	Aug. 11—18	Aug. 18—25	Nov. 7—14	Nov. 20 to Dec. 5	Sept. 19—26 to Sept. 5	Nov. 19—26 to Nov. 21—28	Nov. 14—21	Sept. 6—12	Sept. 13—19	OF MAKER.	
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	Kullberg	5188
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	Thurig	5200
1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	Thurig	5201
1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	Thurig	5202
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	Thurig	5203
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	Thurig	5204
1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	Thurig	5205
1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	Thurig	5206
1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	Thurig	5207
1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	Thurig	5208
1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	Thurig	5209
1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	Thurig	5210
1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	Thurig	5211
1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	Thurig	5212
1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	Thurig	5213
1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	Thurig	5214
1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	Thurig	5215
1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	Thurig	5216
1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	Thurig	5217
1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	Thurig	5218
1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	Thurig	5219
1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	Thurig	5220
1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	Thurig	5221
1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	Thurig	5222
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	Thurig	5223
1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	Thurig	5224
1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	Thurig	5225
1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	Thurig	5226
1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	Thurig	5227
1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	Thurig	5228
1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	Thurig	5229
1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	Thurig	5230
1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	Thurig	5231
1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	Thurig	5232
1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	Thurig	5233
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	Thurig	5234
1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	Thurig	5235
1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	Thurig	5236
1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	Thurig	5237
1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	Thurig	5238
1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	Thurig	5239
1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	Thurig	5240
1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	Thurig	5241
1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	Thurig	5242
1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	Thurig	5243
1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	Thurig	5244
1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	Thurig	5245
1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	Thurig	5246
1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	Thurig	5247
1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	Thurig	5248
1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	Thurig	5249
1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	Thurig	5250
1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	Thurig	5251
1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	Thurig	5252
1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	Thurig	5253
1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	Thurig	5254
1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	Thurig	5255
1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	Thurig	5256
1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	Thurig	5257
1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	Thurig	5258
1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	Thurig	5259
1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	Thurig	5260
1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	Thurig	5261
1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	Thurig	5262
1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	Thurig	5263
1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	Thurig	5264
1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	Thurig	5265
1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	Thurig	5266
1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	Thurig	5267
1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	Thurig	5268
1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	Thurig	5269
1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	Thurig	5270
1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	Thurig	5271
1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	Thurig	5272
1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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-197.0	-313.2	-328.4	-370.0	-408.8	-450.0	-456.0	-546.6	-559.2	-1789.5	-2008.6	-2159.0	-2498.8	-2925.0	-3399.0	-3894.0	-4399.0	-4899.0	-5399.0	-5899.0	-6399.0	-6899.0	-7399.0	-7899.0	-8399.0	-8899.0	-9399.0	-9899.0	-10399.0	-10899.0	-11399.0	-11899.0	-12399.0	-12899.0	-13399.0	-13899.0	-14399.0	-14899.0	-15399.0	-15899.0	-16399.0	-16899.0	-17399.0	-17899.0	-18399.0	-18899.0	-19399.0	-19899.0	-20399.0	-20899.0	-21399.0	-21899.0	-22399.0	-22899.0	-23399.0	-23899.0	-24399.0	-24899.0	-25399.0	-25899.0	-26399.0	-26899.0	-27399.0	-27899.0	-28399.0	-28899.0	-29399.0	-29899.0	-30399.0	-30899.0	-31399.0	-31899.0	-32399.0	-32899.0	-33399.0	-33899.0	-34399.0	-34899.0	-35399.0	-35899.0	-36399.0	-36899.0	-37399.0	-37899.0	-38399.0	-38899.0	-39399.0	-39899.0	-40399.0	-40899.0	-41399.0	-41899.0	-42399.0	-42899.0	-43399.0	-43899.0	-44399.0	-44899.0	-45399.0	-45899.0	-46399.0	-46899.0	-47399.0	-47899.0	-48399.0	-48899.0	-49399.0	-49899.0	-50399.0	-50899.0	-51399.0	-51899.0	-52399.0	-52899.0	-53399.0	-53899.0	-54399.0	-54899.0	-55399.0	-55899.0	-56399.0	-56899.0	-57399.0	-57899.0	-58399.0	-58899.0	-59399.0	-59899.0	-60399.0	-60899.0	-61399.0	-61899.0	-62399.0	-62899.0	-63399.0	-63899.0	-64399.0	-64899.0	-65399.0	-65899.0	-66399.0	-66899.0	-67399.0	-67899.0	-68399.0	-68899.0	-69399.0	-69899.0	-70399.0	-70899.0	-71399.0	-71899.0	-72399.0	-72899.0	-73399.0	-73899.0	-74399.0	-74899.0	-75399.0	-75899.0	-76399.0	-76899.0	-77399.0	-77899.0	-78399.0	-78899.0	-79399.0	-79899.0	-80399.0	-80899.0	-81399.0	-81899.0	-82399.0	-82899.0	-83399.0	-83899.0	-84399.0	-84899.0	-85399.0	-85899.0	-86399.0	-86899.0	-87399.0	-87899.0	-88399.0	-88899.0	-89399.0	-89899.0	-90399.0	-90899.0	-91399.0	-91899.0	-92399.0	-92899.0	-93399.0	-93899.0	-94399.0	-94899.0	-95399.0	-95899.0	-96399.0	-96899.0	-97399.0	-97899.0	-98399.0	-98899.0	-99399.0	-99899.0	-100399.0	-100899.0	-101399.0	-101899.0	-102399.0	-102899.0	-103399.0	-103899.0	-104399.0	-104899.0	-105399.0	-105899.0	-106399.0	-106899.0	-107399.0	-107899.0	-108399.0	-108899.0	-109399.0	-109899.0	-110399.0	-110899.0	-111399.0	-111899.0	-112399.0	-112899.0	-113399.0	-113899.0	-114399.0	-114899.0	-115399.0	-115899.0	-116399.0	-116899.0	-117399.0	-117899.0	-118399.0	-118899.0	-119399.0	-119899.0	-120399.0	-120899.0	-121399.0	-121899.0	-122399.0	-122899.0	-123399.0	-123899.0	-124399.0	-124899.0	-125399.0	-125899.0	-126399.0	-126899.0	-127399.0	-127899.0	-128399.0	-128899.0	-129399.0	-129899.0	-130399.0	-130899.0	-131399.0	-131899.0	-132399.0	-132899.0	-133399.0	-133899.0	-134399.0	-134899.0	-135399.0	-135899.0	-136399.0	-136899.0	-137399.0	-137899.0	-138399.0	-138899.0	-139399.0	-139899.0	-140399.0	-140899.0	-141399.0	-141899.0	-142399.0	-142899.0	-143399.0	-143899.0	-144399.0	-144899.0	-145399.0	-145899.0	-146399.0	-146899.0	-147399.0	-147899.0	-148399.0	-148899.0	-149399.0	-149899.0	-150399.0	-1508
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[illegible]

62.3	62.3	63.0	63.6	63.9	64.9	65.0	65.9	65.6	77.2	70.2	85.6	86.9	91.4	91.9	97.9	98.0	Temperature.
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Department of Defense

60.0-85.2 60.8-65.8 60.8-66.2 62.5-65.0 62.8-66.3 62.0-67.2 62.9-68.9 63.0-71.6 63.8-68.4 76.0-78.9 76.6-81.3 81.0-89.9 80.5-88.8 90.0-93.4 90.0-93.7 92.5-99.4 95.4-100.0

[illegible]

The Chronometers are placed in order of merit, their respective positions being determined by consideration of the irregularities of rate exhibited in

Table III.
The mainspring of the Chronometer, Haswell & Sons 2921, broke during the first week of the trial; a new spring was put in by the makers.

provided by the NACLA Antismuggling Data Center

physics • Provided by the NASA Astrophysics Data System

NAME OF MAKER.	No.	Whether on days.	ADDRESS OF MAKER.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(III.) ABSTRACT OF	
					Least Weekly Sum.	Extremes of Temperature.
Kailberg	5192	2	105, Liverpool Road, N.	Reversed detent; short spring.	- 5.8	52.4 - 60.6
Johannsen & Co.	3853	2	119, Minories, E.C.	Auxiliary acting in heat.	+ 1.1	62.8 - 65.3
Kailberg	5208	2	105, Liverpool Road, N.	Reversed detent; short spring.	- 0.2	63.8 - 65.4
Uhrig	535	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	+ 4.7	40.8 - 48.0
Uhrig	517	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	- 7.6	60.4 - 71.9
Uhrig	526	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	- 8.6	63.8 - 66.3
Kailberg	5157	2	105, Liverpool Road, N.	Reversed detent; short spring.	- 15.6	40.8 - 56.0
Kailberg	5172	2	105, Liverpool Road, N.	Reversed detent; short spring.	- 5.3	53.4 - 60.6
Uhrig	521	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	+ 4.7	40.8 - 48.0
Kailberg	5083	2	105, Liverpool Road, N.	Reversed detent; short spring.	- 2.1	63.0 - 71.9
Johannsen & Co.	4107	2	119, Minories, E.C.	Auxiliary acting in cold.	+ 4.1	50.4 - 100.0
Gardner	3794	2	20, Lloyd's Square, W.C.	Auxiliary acting in heat and cold.	+ 5.0	62.8 - 66.3
Johannsen & Co.	3794	2	119, Minories, E.C.	Auxiliary acting in heat and cold.	- 2.5	60.4 - 68.9
Johannsen & Co.	4109	2	119, Minories, E.C.	Auxiliary acting in heat.	+ 15.3	63.0 - 71.9
Kirk & Co.	5176	2	7, Whitford Gate, Hall.	Auxiliary acting in heat and cold.	- 7.1	40.8 - 56.0
Johannsen & Co.	3898	2	119, Minories, E.C.	Auxiliary acting in heat.	- 0.1	63.8 - 68.4
Isaac	1786	2	10, Spencer Street, Clerkenwell, E.C.	Auxiliary compensation.	- 8.2	40.8 - 56.0
Johannsen & Co.	4051	2	119, Minories, E.C.	Auxiliary acting in heat.	- 10.3	63.0 - 71.9
Kailberg	5054	2	105, Liverpool Road, N.	Reversed detent; short spring.	+ 1.1	63.8 - 65.4
Keys	984	2	15, Craven Street, Strand, W.C.	Auxiliary compensation.	+ 5.1	40.8 - 56.0
Hume	2050	2	No. 40, Side, near the Quay, Newcastle-on-Tyne.	Auxiliary acting in heat.	- 0.6	60.0 - 93.4
Prot	860	2	71, West India Dock Road, E.	Ordinary balance with slight alteration.	- 1.8	92.0 - 99.4
Glover	386	2	17, Cottage, Albert Road North, Buckhurst Hill.	Ordinary balance with gronion auxiliary.	- 18.1	40.8 - 56.0
Usher & Cole	6005	2	105, St. John Street Road, E.C.	Ordinary balance.	- 18.7	92.0 - 99.4
Johannsen & Co.	4054	2	119, Minories, E.C.	Auxiliary acting in cold.	+ 2.7	62.8 - 65.3
Johannsen & Co.	3837	2	119, Minories, E.C.	Auxiliary acting in heat.	- 14.1	53.7 - 67.4
Kendal & Dent	4054	2	105, Cheapside, E.C.	Auxiliary compensation acting in extremes.	- 6.0	62.8 - 65.3
Clerke	1719	2	1, Royal Exchange, E.C.	Ordinary balance.	- 19.8	95.4 - 100.0
Johannsen & Co.	3711	2	119, Minories, E.C.	Auxiliary acting in heat.	- 18.1	60.0 - 93.4
Prot	914	2	71, West India Dock Road, E.	Ordinary balance with slight alteration.	+ 1.1	95.4 - 100.0
Webb	2016	2	90, Pall Mall's non-magnetic balance and spring.	Pallard's non-magnetic balance and spring.	- 19.8	47.8 - 61.0
Moore	1818	2	107, High Street, Belfast.	Auxiliary acting in heat.	- 0.7	63.8 - 68.4
Robinson & Wells	2847	2	107, High Street, Belfast.	Auxiliary compensation.	- 4.6	53.4 - 60.6
Isaac	1772	2	10, Spencer Street, Clerkenwell, E.C.	Auxiliary compensation.	- 9.7	60.0 - 65.2
Haswell & Sons	5002	2	15, Craven Street, Strand, W.C.	Pallard's non-magnetic balance and spring.	+ 1.9	63.8 - 68.4
Prot	916	2	71, West India Dock Road, E.	Ordinary balance with slight alteration.	+ 4.9	60.0 - 65.2
Prot	862	2	71, West India Dock Road, E.	Ordinary balance with slight alteration.	- 1.4	95.4 - 100.0
Robinson & Wells	2840	2	107, High Street, Belfast.	Auxiliary compensation.	- 1.8	70.0 - 81.3
Moore	1811	2	107, High Street, Belfast.	Auxiliary acting in heat.	- 7.9	60.0 - 65.2
Haswell & Sons	5004	2	No. 40, Side, near the Quay, Newcastle-on-Tyne.	Auxiliary acting in heat.	- 6.6	53.7 - 67.4
Schoof	6005	2	90, St. John Street Road, E.C.	Schoof's resilient lever escapement.	+ 14.5	53.7 - 67.4
Usher & Cole	6005	2	105, St. John Street Road, E.C.	Ordinary balance.	- 4.5	40.8 - 56.0
Johannsen & Co.	4017	2	119, Minories, E.C.	Auxiliary acting in cold.	- 5.3	50.4 - 100.0
Kendal & Dent	4054	2	105, Cheapside, E.C.	Auxiliary compensation acting in extremes.	- 8.9	63.8 - 68.4
Keys	984	2	15, Craven Street, Strand, W.C.	Auxiliary compensation.	- 10.3	90.0 - 93.4
Glover	386	2	17, Cottage, Albert Road North, Buckhurst Hill.	Ordinary balance with auxiliary acting in cold.	+ 1.1	60.0 - 65.2
Haswell & Sons	2021	2	49 & 50, Spencer Street, Clerkenwell, E.C.	Auxiliary acting in cold.	- 20.9	40.8 - 56.0
Moore	6009	2	105, St. John Street Road, E.C.	Pallard's non-magnetic balance and spring.	- 8.3	63.0 - 71.9
Muter	508	2	20, Union Street, Glasgow.	Schoof's resilient lever escapement.	- 32.3	40.8 - 100.0
Webb	2022	2	90, High Street, Lillingston, N.	Auxiliary compensation.	- 1.6	70.0 - 79.9
				Pallard's non-magnetic balance and spring.	- 72.3	48.0 - 53.0

The sign + indicates that the rate is gaining.

THE PRINCIPAL CHANGES OF RATE DURING THE 29 WEEKS.

Mean Temperature.	Greatest Weekly Sum.	Extremes of Temperature.	Mean Temperature.	Difference between the Greatest and Least.	Greatest Difference between one Week and the next.	Mean Temperature for these two Weeks.	Trial No. + 2 6.	NAME OF MAKER.	No.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
55.1	0.0	60.8 - 65.8	63.3	5.8	4.7	55.1 - 77.2	18.2	Kailberg	5192
65.1	+ 8.2	81.0 - 89.9	83.6	7.1	5.9	55.1 - 97.9	18.9	Johannsen & Co.	3853
47.8	+ 1.7	60.0 - 68.4	61.4	10.9	4.9	58.1 - 77.2	20.3	Kailberg	5208
58.0	+ 4.7	40.8 - 48.0	46.3	4.9	6.9	79.2 - 53.8	23.8	Uhrig	535
65.9	+ 6.3	42.9 - 53.5	47.8	13.8	4.8	49.7 - 47.5	23.4	Uhrig	517
63.9	+ 7.1	70.0 - 79.9	77.2	15.7	4.5	63.8 - 55.6	34.7	Uhrig	526
46.2	- 3.7	63.8 - 68.4	65.0	12.9	5.9	50.1 - 59.7	34.7	Kailberg	5157
56.1	+ 0.8	81.0 - 89.9	85.6	12.1	6.0	55.1 - 77.2	23.1	Kailberg	5172
65.6	+ 10.6	42.9 - 53.5	47.5	15.3	6.9	54.7 - 46.2	25.1	Uhrig	521
56.9	+ 10.7	70.0 - 81.3	79.2	12.8	6.5	50.1 - 77.2	25.8	Kailberg	5083
68.0	+ 18.8	42.0 - 53.0	47.3	14.7	5.9	59.9 - 68.3	25.9	Johannsen & Co.	4107
63.9	+ 17.3	42.9 - 56.4	50.2	12.2	7.4	49.2 - 50.2	27.0	Gardner	3794
58.9	+ 9.3	60.8 - 66.2	63.0	11.8	8.4	79.2 - 55.2	23.6	Johannsen & Co.	3794
65.9	+ 30.5	47.8 - 61.0	54.7	15.2	7.2	63.6 - 85.6	29.6	Johannsen & Co.	4109
46.2	+ 5.0	81.0 - 89.9	85.6	13.0	10.0	50.1 - 77.2	33.0	Kirk & Co.	5176
55.6	+ 11.4	90.0 - 93.4	91.9	17.9	9.5	63.6 - 85.6	33.5	Johannsen & Co.	3898
46.2	+ 7.7	70.0 - 81.3	79.2	15.9	10.0	40.2 - 50.2	30.7	Isaac	1786
65.6	+ 9.6	90.0 - 93.4	91.4	19.8	8.6	63.6 - 85.6	30.8	Johannsen & Co.	4051
46.2	+ 2.8	81.0 - 89.9	85.6	10.0	8.9	55.1 - 77.2	36.8	Kailberg	5054
47.5	+ 33.0	55.2 - 68.4	67.0	18.5	9.3	50.1 - 77.2	37.1	Keys	984
91.4	+ 6.2	42.9 - 53.5	47.5	15.8	10.9	55.1 - 77.2	37.6	Hume	2050
97.9	+ 18.1	40.8 - 56.0	46.2	19.9	8.9	55.0 - 97.9	37.7	Prot	860
46.2	+ 8.8	90.0 - 93.4	91.3	17.3	10.4	40.2 - 50.2	38.1	Glover	386
97.9	+ 1.6	70.0 - 79.9	77.2	17.1	10.6	85.6 - 97.9	38.3	Usher & Cole	6005
63.9	+ 28.7	42.0 - 53.0	47.3	26.0	6.3	85.6 - 97.9	38.6	Kailberg	5054
57.6	+ 3.3	81.0 - 89.9	85.6	19.4	10.7	63.6 - 85.6	40.8	Johannsen & Co.	3837
63.9	+ 33.3	42.9 - 53.0	47.3	21.3	9.1	55.1 - 77.2	41.3	Kendal & Dent	4054
21.3	+ 1.4	70.0 - 79.9	77.2	21.3	10.7	85.6 - 97.9	42.6	Clerke	1719
20.8	+ 2.7	60.8 - 65.3	63.3	20.8	11.0	50.1 - 50.2	42.8	Johannsen & Co.	3711
54.7	+ 4.4	62.8 - 65.3	63.9	9.7	9.8	55.0 - 67.3	42.9	Prot	914
53.7	+ 1.4	62.8 - 65.3	63.9	18.4	12.7	80.0 - 62.3	43.8	Webb	2016
57.6	+ 37.3	42.9 - 53.5	47.5	27.6	8.5	85.6 - 97.9	44.6	Moore	1818
56.1	+ 20.4	92.0 - 99.4	97.9	25.9	9.9	85.6 - 97.9	44.8	Robinson & Wells	2847
62.3	+ 9.1	42.0 - 53.0	47.3	18.5	13.1	80.0 - 62.3	45.0	Isaac	1772
65.6	+ 35.1	42.0 - 53.0	47.3	33.2	7.4	85.6 - 62.3	48.0	Haswell & Sons	5002
57.6	+ 12.9	70.0 - 79.9	77.2	19.3	13.9	55.1 - 77.2	57.1	Hume	2048
57.6	+ 45.6	70.6 - 81.3	79.2	30.5	13.4	79.2 - 55.2	57.3	Schoof	6005
46.2	+ 23.2	70.0 - 79.9	77.2	20.7	10.3	54.7 - 46.2	57.3	Usher & Cole	6005
57.6	+ 14.9	42.9 - 53.5	47.5	14.9	12.7	80.0 - 62.3	58.5	Johannsen & Co.	4017
98.0	+ 42.4	42.9 - 53.5	47.5	55.6	9.1	55.1 - 77.2	60.2	Kendal & Dent	4054
46.2	+ 33.1	42.0 - 53.0	47.3	42.0	9.1	79.2 - 55.2	61.8	Keys	984
65.3	+ 23.0	90.0 - 93.4	91.4	35.9	15.6	79.2 - 55.2	67.9	Glover	386
46.2	+ 8.9	81.0 - 89.9	85.6	28.1	20.1	55.1 - 77.2	70.0	Johannsen & Co.	3792
57.6	+ 6.0	42.9 - 53.5	47.5	15.2	12.7	77.2 - 53.0	70.0	Haswell & Sons	5009
57.6	+ 6.5	60.8 - 71.6	65.9	23.8	20.1	85.6 - 97.9	79.0	Schoof	6359
77.2	+ 5.6	40.8 - 56.0	46.2	58.2	6.0	79.2 - 55.2	100.0	Muter	508
47.3	- 0.3	62.8 - 66.3	63.9	72.0	41.2	80.9 - 65.3	144.4	Webb	2022

The Chronometers are placed in order of merit, their respective positions being determined by consideration of the irregularities of rate exhibited in the Table above. The Trial No. + 2 6 is taken as a measure of the irregularity of rate. The misapplying of the chronometer, Haswell & Sons 2921, broke during the first week of the trial; a new spring was put in by the makers.