

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH.

FROM 1887 MARCH 5 TO 1887 JUNE 18.

(1.) WEEKLY RATES

NAME or MAKER.	No.	Whether on 2 or 3 Days.	Construction of Escapement and Balance, from the Description furnished by the Maker.	March 3-12	March 12-20	March 20-26	March 26 to April 2	April 2-9
Uthig	468	2	Uthig's continually acting auxiliary.	-17.1	-8.8	-7.2	-10.5	-7.9
Mercer	4592	2	Auxiliary compensation.	-12.1	-18.5	-17.4	-18.5	-18.5
C. Frodham and Co.	5011	2	Ordinary balance.	-9.8	-9.8	-7.9	-9.9	-10.7
Johnson and Son	3710	2	Auxiliary compensation acting in extremes of tem- perature.	-12.1	-18.5	-17.4	-18.5	-18.5
Johnson and Son	3779	2	Auxiliary compensation acting in extremes of tem- perature.	-2.9	+4.6	+6.6	+4.7	+7.2
Hume	3013	2	Auxiliary compensation for heat.	+10.7	+11.3	+11.2	+4.1	+5.8
Kullberg	4669	2	Reversed detent, with short spring.	+6.6	+6.8	+8.3	+2.0	+7.3
Johnson and Co.	3800	2	Auxiliary acting in heat and cold.	+1.4	+1.4	+0.2	+0.2	+0.2
Johnson and Co.	3816	2	Auxiliary acting in heat.	+5.6	+11.7	+8.8	+3.0	+4.8
Johnson and Co.	3816	2	Auxiliary acting in heat and cold.	+2.9	+1.0	+0.2	+0.2	+0.2
Issue	1670	2	Palladium balance spring.	-2.4	-2.7	-2.6	+4.1	+6.7
Uthig	460	2	Uthig's continually acting auxiliary.	-17.1	-10.2	-15.9	-6.1	-6.1
David Reid	1768	2	Auxiliary compensation.	-17.2	-16.1	-14.4	-22.3	-18.6
Webster	1698	2	Palladium balance spring.	+4.2	+9.8	+7.1	+1.8	+4.4
Hume	3014	2	Auxiliary compensation.	+6.4	+8.6	+7.7	+3.7	+11.1
Prott	887	2	Auxiliary compensation.	+2.1	+6.3	+6.5	+7.9	+9.9
Issue	1688	2	Ordinary balance, bright steel spring.	-11.7	-12.7	-10.2	-10.4	-9.2
Kullberg	4758	2	Reversed detent, with short spring.	+8.3	+8.8	+9.4	+7.5	+8.3
Oram and Son	1843	2	Auxiliary compensation.	-4.7	-4.0	-2.0	-10.3	-7.6
Brookbank and Atkins	2035	2	Ordinary balance.	+2.9	+9.4	+4.6	+4.6	+4.6
Mann	4603	2	Ordinary balance.	-8.1	-9.8	-7.4	-2.3	-1.6
Reid and Sons	867	2	Auxiliary compensation.	+5.0	+7.2	+8.1	-0.1	-1.0
Oliver	306	2	Ordinary balance, with auxiliary acting in heat.	-9.1	-11.1	-10.8	-10.8	-10.8
Edwards and Sons	4980	2	Ordinary balance, with auxiliary acting in heat.	+3.6	+1.1	+0.5	+9.1	+4.2
Williams	3465	2	Ordinary balance, with auxiliary compensation.	-15.7	-15.2	-14.0	-17.4	-14.9
Davison	3367	2	Auxiliary compensation.	-5.3	-6.4	-3.7	-7.2	-6.9
Keys	858	2	Improved balance.	+1.3	+5.6	+7.0	+6.5	+8.0
C. Frodham and Co.	5012	2	Ordinary balance.	+5.8	+1.2	+3.2	-8.0	-9.0
Webster	16704	2	Ordinary balance.	-9.3	-8.6	-11.8	-18.6	-18.6
Oram and Son	1843	2	Ordinary balance.	+2.2	-0.4	+2.3	+1.5	+4.1
Webb	510	2	Auxiliary compensation acting in heat.	-6.5	-6.5	-4.7	-13.1	-16.5
Webb	513	2	Auxiliary compensation acting in heat.	+16.7	+10.0	+16.4	+12.7	+16.5
James Poole and Co.	5200	2	Poole's auxiliary.	-31.9	-21.2	-20.5	-31.3	-30.8
Reid and Sons	5786	2	Poole's auxiliary.	+7.8	+15.8	+16.8	+6.0	+4.0
Hewitt	5682	2	Poole's auxiliary.	-8.1	-3.1	-2.6	-4.5	-6.7
Sevill	4450	2	Ordinary balance.	-12.0	-16.1	-10.2	-2.0	-3.7
Hewitt	5682	2	Poole's auxiliary.	-9.1	-1.7	-6.4	-8.0	-8.0
Keys	854	2	Auxiliary compensation.	+2.6	+2.9	+5.4	+4.1	+4.1
Brookbank and Atkins	2035	2	Ordinary balance.	-16.2	-7.1	-9.9	-17.7	-17.7
Williams	3798	2	Ordinary balance, with auxiliary compensation.	+2.4	+3.7	+8.8	-1.6	-0.5
Sevill	4419	2	Ordinary balance.	-13.7	-15.6	-11.7	-1.0	-3.1
Sevill	4418	2	Ordinary balance.	-14.6	-16.6	-13.3	-8.0	-8.8
Oram and Son	1841	2	Auxiliary compensation.	-9.1	-4.3	+9.6	+12.7	+6.6
Webster	16983	2	Ordinary balance.	-4.6	+0.1	+2.0	-9.7	-6.9
Webster	16983	2	Ordinary balance with slight alteration.	-7.8	-7.1	-7.4	+4.6	+4.6
Mercer	4827	2	Auxiliary compensation.	-9.3	-10.5	-5.7	-9.5	-9.2
David Reid	850	2	Auxiliary compensation.	-10.8	-0.1	+1.0	-8.0	-3.8
Oram and Son	1847	2	Ordinary balance.	+11.8	+8.1	+16.7	+16.0	+9.9
Klean and Co.	1006	2	Ordinary balance.	-10.6	-9.4	-7.4	-13.6	-10.0
C. Frodham and Co.	3000	2	Ordinary balance.	+2.2	+0.6	-0.3	-10.0	-11.8
James Poole and Co.	5001	2	Poole's auxiliary.	-11.6	-13.0	-10.8	-12.8	-13.1
Schoof	6359	2	Schoof's resilient lever escapement.	+2.6	+9.1	+21.8	+7.8	-5.7

Chronometrical Thermometer		+1380.4	+1579.2	+1384.8	-2282.0	-2640.3
Mean Weekly Temperature		47.6	48.2	48.3	50.4	52.6
Extremes of Temperature as shown by the Self-Registering Thermometers		44.0-54.0	46.4-51.6	36.0-55.2	38.0-50.3	38.2-54.9

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 flames are exterior to the chamber, into which most 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 rim being reversed. By this arrangement the effect of temperature is much magnified.

IN ORDER OF TIME.

NAME or MAKER.	No.	Whether on 2 or 3 Days.	Construction of Escapement and Balance, from the Description furnished by the Maker.	April 9-16	April 16-23	April 23-30	April 30 to May 7	May 7-14	May 14-21	May 21-28	May 28 to June 4	June 4-11	June 11-18
Uthig	458	2	Uthig's continually acting auxiliary.	-17.1	-10.2	-15.9	-6.1	-6.1	-11.3	-10.8	-10.8	-10.8	-11.3
Mercer	4592	2	Auxiliary compensation.	-12.1	-18.5	-17.4	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5
C. Frodham and Co.	5011	2	Ordinary balance.	-9.8	-9.8	-7.9	-9.9	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
Johnson and Son	3710	2	Auxiliary compensation acting in extremes of tem- perature.	-12.1	-18.5	-17.4	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5
Johnson and Son	3779	2	Auxiliary compensation acting in extremes of tem- perature.	-2.9	+4.6	+6.6	+4.7	+7.2	+7.2	+7.2	+7.2	+7.2	+7.2
Hume	3013	2	Auxiliary compensation for heat.	+10.7	+11.3	+11.2	+4.1	+5.8	+5.8	+5.8	+5.8	+5.8	+5.8
Kullberg	4669	2	Reversed detent, with short spring.	+6.6	+6.8	+8.3	+2.0	+7.3	+7.3	+7.3	+7.3	+7.3	+7.3
Johnson and Co.	3800	2	Auxiliary acting in heat and cold.	+1.4	+1.4	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2
Johnson and Co.	3816	2	Auxiliary acting in heat.	+5.6	+11.7	+8.8	+3.0	+4.8	+4.8	+4.8	+4.8	+4.8	+4.8
Johnson and Co.	3816	2	Auxiliary acting in heat and cold.	+2.9	+1.0	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2
Issue	1670	2	Palladium balance spring.	-2.4	-2.7	-2.6	+4.1	+6.7	+6.7	+6.7	+6.7	+6.7	+6.7
Uthig	460	2	Uthig's continually acting auxiliary.	-17.1	-10.2	-15.9	-6.1	-6.1	-11.3	-10.8	-10.8	-10.8	-11.3
David Reid	1768	2	Auxiliary compensation.	-17.2	-16.1	-14.4	-22.3	-18.6	-18.6	-18.6	-18.6	-18.6	-18.6
Webster	1698	2	Palladium balance spring.	+4.2	+9.8	+7.1	+1.8	+4.4	+4.4	+4.4	+4.4	+4.4	+4.4
Hume	3014	2	Auxiliary compensation.	+6.4	+8.6	+7.7	+3.7	+11.1	+11.1	+11.1	+11.1	+11.1	+11.1
Prott	887	2	Auxiliary compensation.	+2.1	+6.3	+6.5	+7.9	+9.9	+9.9	+9.9	+9.9	+9.9	+9.9
Issue	1688	2	Ordinary balance, bright steel spring.	-11.7	-12.7	-10.2	-10.4	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
Kullberg	4758	2	Reversed detent, with short spring.	+8.3	+8.8	+9.4	+7.5	+8.3	+8.3	+8.3	+8.3	+8.3	+8.3
Oram and Son	1843	2	Auxiliary compensation.	-4.7	-4.0	-2.0	-10.3	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6
Brookbank and Atkins	2035	2	Ordinary balance.	+2.9	+9.4	+4.6	+4.6	+4.6	+4.6	+4.6	+4.6	+4.6	+4.6
Mann	4603	2	Ordinary balance.	-8.1	-9.8	-7.4	-2.3	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
Reid and Sons	867	2	Auxiliary compensation.	+5.0	+7.2	+8.1	-0.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Oliver	306	2	Ordinary balance, with auxiliary acting in heat.	-9.1	-11.1	-10.8	-10.8	-10.8	-10.8	-10.8	-10.8	-10.8	-10.8
Edwards and Sons	4980	2	Ordinary balance, with auxiliary acting in heat.	+3.6	+1.1	+0.5	+9.1	+4.2	+4.2	+4.2	+4.2	+4.2	+4.2
Williams	3465	2	Ordinary balance, with auxiliary compensation.	-15.7	-15.2	-14.0	-17.4	-14.9	-14.9	-14.9	-14.9	-14.9	-14.9
Davison	3367	2	Auxiliary compensation.	-5.3	-6.4	-3.7	-7.2	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9
Keys	858	2	Improved balance.	+1.3	+5.6	+7.0	+6.5	+8.0	+8.0	+8.0	+8.0	+8.0	+8.0
C. Frodham and Co.	5012	2	Ordinary balance.	+5.8	+1.2	+3.2	-8.0	-9.0	-9.0	-9.0	-9.0	-9.0	-9.0
Webster	16704	2	Ordinary balance.	-9.3	-8.6	-11.8	-18.6	-18.6	-18.6	-18.6	-18.6	-18.6	-18.6
Oram and Son	1843	2	Ordinary balance.	+2.2	-0.4	+2.3	+1.5	+4.1	+4.1	+4.1	+4.1	+4.1	+4.1
Webb	510	2	Auxiliary compensation acting in heat.	-6.5	-6.5	-4.7	-13.1	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5
Webb	513	2	Auxiliary compensation acting in heat.	+16.7	+10.0	+16.4	+12.7	+16.5	+16.5	+16.5	+16.5	+16.5	+16.5
James Poole and Co.	5200	2	Poole's auxiliary.	-31.9	-21.2	-20.5	-31.3	-30.8	-30.8	-30.8	-30.8	-30.8	-30.8
Reid and Sons	5786	2	Poole's auxiliary.	+7.8	+15.8	+16.8	+6.0	+4.0	+4.0	+4.0	+4.0	+4.0	+4.0
Hewitt	5682	2	Poole's auxiliary.	-8.1	-3.1	-2.6	-4.5	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Sevill	4450	2	Ordinary balance.	-12.0	-16.1	-10.2	-2.0	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Hewitt	5682	2	Poole's auxiliary.	-9.1	-1.7	-6.4	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0
Keys	854	2	Auxiliary compensation.	+2.6	+2.9	+5.4	+4.1	+4.1	+4.1	+4.1	+4.1	+4.1	+4.1
Brookbank and Atkins	2035	2	Ordinary balance.	-16.2	-7.1	-9.9	-17.7	-17.7	-17.7	-17.7	-17.7	-17.7	-17.7
Williams	3798	2	Ordinary balance, with auxiliary compensation.	+2.4	+3.7	+8.8	-1.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Sevill	4419	2	Ordinary balance.	-13.7	-15.6	-11.7	-1.0	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1
Sevill	4418	2	Ordinary balance.	-14.6	-16.6	-13.3	-8.0	-8.8	-8.8	-8.8	-8.8	-8.8	-8.8
Oram and Son	1841	2	Auxiliary compensation.	-9.1	-4.3	+9.6	+12.7	+6.6	+6.6	+6.6	+6.6	+6.6	+6.6
Webster	16983	2	Ordinary balance.	-4.6	+0.1	+2.0	-9.7	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9
Webster	16983	2	Ordinary balance with slight alteration.	-7.8	-7.1	-7.4	+4.6	+4.6	+4.6	+4.6	+4.6	+4.6	+4.6
Mercer	4827	2	Auxiliary compensation.	-9.3	-10.5	-5.7	-9.5	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
David Reid	850	2	Auxiliary compensation.	-10.8	-0.1	+1.0	-8.0	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8
Oram and Son	1847	2	Ordinary balance.	+11.8	+8.1	+16.7	+16.0	+9.9	+9.9	+9.9	+9.9	+9.9	+9.9
Klean and Co.	1006	2	Ordinary balance.	-10.6	-9.4	-7.4	-13.6	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
C. Frodham and Co.	3000	2	Ordinary balance.	+2.2	+0.6	-0.3	-10.0	-11.8	-11.8	-11.8	-11.8	-11.8	-11.8
James Poole and Co.	5001	2	Poole's auxiliary.	-11.6	-13.0	-10.8	-12.8	-13.1	-13.1	-13.1	-13.1	-13.1	-13.1
Schoof	6359	2	Schoof's resilient lever escapement.	+2.6	+9.1	+21.8	+7.8	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7

The Chronometers are placed in order of merit their respective positions being determined by consideration of the irregularity of rate exhibited in Table III.

Extremes of Temperature as shown by the Self-Registering Thermometers.

NAME or MAKER.	No.	Whether a or b Days.	Construction of Escapement and Balance from the Description furnished by the Maker.	(1L) WEEKLY RATES IN THE				
				March 12-19	March 19-26	March 26-30	April 23-30	April 30 to May 7
Uhlig	458	2	Uhlig's continually acting auxiliary.	- 8.9	- 8.1	- 7.2	- 8.9	- 10.7
Mercer	459	2	Auxiliary compensation.	- 16.5	- 10.9	- 14.4	- 13.1	- 12.9
C. Frodham and Co.	0011	2	Ordinary balance.	- 9.8	- 9.1	- 7.9	- 13.6	- 13.7
Johnson and Son	3770	2	Auxiliary compensation acting in extremes of tem- perature.	- 1.9	- 4.8	- 0.7	- 3.9	- 4.1
Johnson and Son	3779	2		+ 4.6	+ 2.9	+ 6.6	+ 3.9	+ 0.6
Hume	2018	3	Auxiliary compensation for heat.	+ 11.3	+ 10.7	+ 11.2	+ 8.1	+ 8.8
Kalberg	466	2	Reversed detent, with short spring.	+ 6.9	+ 6.0	+ 5.8	+ 6.6	+ 4.4
Johnson and Co.	3800	2	Auxiliary acting in heat and cold.	+ 11.7	+ 10.9	+ 11.4	+ 6.2	+ 6.1
Johnson and Co.	3816	2	Auxiliary acting in heat.	+ 11.7	+ 10.9	+ 11.4	+ 6.2	+ 6.1
Johnson and Co.	3868	2	Auxiliary acting in heat and cold.	+ 11.7	+ 10.9	+ 11.4	+ 6.2	+ 6.1
Isaac	1670	2	Palladium balance spring.	- 2.7	- 2.4	- 2.8	- 2.1	- 1.9
Uhlig	460	2	Uhlig's continually acting auxiliary.	- 16.5	- 17.1	- 15.2	- 9.0	- 9.2
David Reid	1788	2	Auxiliary compensation.	- 16.1	- 17.2	- 16.4	- 20.4	- 19.1
Webster	1908	2	Palladium balance spring.	- 2.0	- 4.2	- 7.1	- 1.3	- 2.3
Hume	2014	2	Auxiliary compensation.	+ 8.6	+ 6.4	+ 7.7	+ 14.1	+ 13.3
Prott	887	2	Auxiliary compensation.	+ 6.3	+ 2.1	+ 6.5	+ 9.7	+ 11.6
Isaac	1688	2	Ordinary balance, bright steel spring.	- 13.7	- 11.7	- 10.3	- 5.6	- 4.9
Kalberg	4738	2	Reversed detent, with short spring.	+ 8.9	+ 8.3	+ 9.4	+ 18.3	+ 16.6
Oram and Son	1833	2	Auxiliary compensation.	- 4.0	- 4.7	- 2.0	+ 1.3	+ 4.3
Brookbank and Atkins	2038	2	Ordinary balance.	- 2.5	- 0.8	- 2.2	- 6.3	- 7.1
Mann	4603	2		- 9.8	- 8.1	- 7.4	- 0.4	- 0.5
Reid and Sons	867	2	Auxiliary compensation.	+ 7.2	- 5.0	+ 6.1	- 4.1	- 2.6
Glover	366	2	Ordinary balance, with auxiliary acting in heat.	- 10.4	- 8.1	- 6.4	- 9.1	- 8.1
Edward and Sons	4398	2	Ordinary balance.	- 1.1	+ 4.6	+ 0.3	+ 10.4	+ 10.2
Williams	4465	2	Ordinary balance, with auxiliary compensation.	- 15.2	- 10.7	- 14.0	- 22.7	- 18.5
Davison	3367	2	Auxiliary compensation.	- 6.4	- 5.3	- 3.7	- 1.4	- 0.4
Key	888	2	Improved balance.	+ 2.8	+ 1.8	+ 7.0	+ 4.8	+ 14.4
C. Frodham and Co.	0013	2	Ordinary balance.	- 1.2	- 0.8	- 3.3	- 6.1	- 8.8
Webster	16704	2	Ordinary balance.	- 8.6	- 9.3	- 8.9	- 11.3	- 10.8
Oram and Son	711	2		- 0.4	+ 2.2	+ 2.3	+ 10.6	+ 9.8
Webb	510	2	Auxiliary compensation acting in heat.	- 6.6	- 6.6	- 4.7	- 2.1	- 3.3
Webb	513	2	Auxiliary compensation acting in heat.	+ 16.0	+ 16.0	+ 25.1	+ 28.2	+ 28.4
James Poole and Co.	2680	2	Ordinary balance.	- 21.2	- 14.9	- 19.6	- 7.3	- 6.0
Reid and Sons	5735	2	Ordinary balance.	- 15.8	+ 7.8	- 16.8	- 6.2	- 6.2
Hewitt	5826	2	Ordinary balance.	- 3.6	- 8.1	- 2.6	- 16.0	- 13.3
Swill	4410	2	Ordinary balance.	- 16.1	- 12.0	- 10.2	- 8.3	- 6.8
Hewitt	5552	2	Ordinary balance.	- 16.1	- 12.0	- 10.2	- 8.3	- 6.8
Key	884	2	Auxiliary compensation.	- 10.8	- 7.1	+ 2.7	- 5.3	- 4.6
Brookbank and Atkins	2034	2	Ordinary balance.	- 16.1	- 12.0	- 10.2	- 8.3	- 6.8
Williams	4796	2	Ordinary balance, with auxiliary compensation.	- 7.7	+ 2.4	+ 2.8	+ 12.6	+ 11.6
Swill	4410	2	Ordinary balance.	- 16.5	- 11.7	- 11.7	- 5.9	- 4.1
Swill	4413	2	Ordinary balance.	- 16.5	- 11.7	- 11.7	- 5.9	- 4.1
Oram and Son	19181	2	Auxiliary compensation.	- 4.3	+ 9.4	+ 4.4	+ 10.4	+ 8.8
Webster	19083	2	Ordinary balance.	- 0.1	- 4.8	+ 7.4	+ 10.7	+ 10.6
Prott	878	2	Ordinary balance, with slight alteration.	+ 7.1	+ 4.1	+ 7.4	+ 19.0	+ 10.6
Mercer	4827	2	Auxiliary compensation.	- 10.5	- 9.3	- 5.7	+ 4.2	+ 9.9
David Reid	880	2	Auxiliary compensation.	- 10.5	- 9.3	- 5.7	+ 4.2	+ 9.9
Oram and Son	19107	2	Ordinary balance.	- 8.1	- 10.8	+ 1.0	+ 17.6	+ 16.3
Klean and Co.	1006	2	Ordinary balance.	- 9.4	- 10.8	+ 7.7	+ 0.0	+ 0.1
C. Frodham and Co.	9600	2	Ordinary balance.	+ 9.6	+ 2.2	- 0.3	+ 9.9	+ 9.2
James Poole and Co.	2681	2	Ordinary balance.	- 13.0	- 11.6	- 10.8	- 4.4	- 6.0
Schoof	6059	2	Schoof's resilient lever escapement.	+ 9.1	+ 2.5	+ 21.8	+ 20.7	+ 23.9

Chronometrical Thermometer	+ 1579.2	+ 1380.4	+ 1294.8	+ 824.5	+ 823.9
Mean Weekly Temperature	45.2	47.6	48.3	52.9	53.8
Extremes of Temperature as shown by the Self-Registering Thermometers.	40.4-51.5	44.0-54.0	39.0-55.2	50.0-57.2	49.3-59.0

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 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 rim being reversed. By this arrangement the effect of temperature is much magnified.

ORDER OF TEMPERATURE AS DETERMINED GENERALLY BY THE CHRONOMETRICAL THERMOMETER.

NAME or MAKER.	No.	April 16-23	May 28 to June 4	June 4-11	June 11-18	March 26 to April 2	May 7-14	April 2-9	April 9-16	May 11-18	May 21-28
Uhlig	458	- 8.1	- 9.0	- 10.8	- 11.3	- 10.5	- 12.1	- 7.9	- 8.5	- 6.9	- 7.5
Mercer	459	- 10.1	- 14.8	- 18.0	- 14.0	- 13.3	- 14.1	- 10.3	- 13.9	- 13.8	- 15.8
C. Frodham and Co.	0011	- 10.1	- 14.8	- 18.0	- 14.0	- 13.3	- 14.1	- 10.3	- 13.9	- 13.8	- 15.8
Johnson and Son	3770	- 16.2	- 11.8	- 8.9	- 7.7	- 9.3	- 1.0	- 1.8	- 1.6	- 1.0	- 1.7
Johnson and Son	3779	+ 1.6	+ 6.3	+ 8.6	+ 10.2	+ 4.7	+ 10.8	+ 7.2	+ 7.7	+ 8.5	+ 8.5
Hume	2018	+ 5.2	+ 3.9	+ 5.3	+ 3.9	+ 4.1	+ 6.3	+ 5.8	+ 6.7	+ 8.7	+ 9.1
Kalberg	466	+ 11.4	+ 0.6	+ 3.9	+ 1.6	+ 0.0	+ 5.8	+ 5.4	+ 5.4	+ 6.4	+ 7.6
Johnson and Co.	3800	+ 11.4	+ 0.6	+ 3.9	+ 1.6	+ 0.0	+ 5.8	+ 5.4	+ 5.4	+ 6.4	+ 7.6
Johnson and Co.	3816	- 0.4	+ 1.5	+ 6.7	+ 3.4	+ 3.3	+ 2.4	+ 4.1	+ 3.3	+ 3.0	+ 2.5
Johnson and Co.	3868	- 0.4	+ 1.5	+ 6.7	+ 3.4	+ 3.3	+ 2.4	+ 4.1	+ 3.3	+ 3.0	+ 2.5
Isaac	1670	+ 3.3	- 2.4	- 3.2	- 3.4	+ 4.1	- 3.2	+ 6.7	+ 4.4	+ 0.5	+ 0.5
Uhlig	460	- 8.0	- 8.7	- 10.4	- 10.3	- 9.1	- 8.0	- 6.1	- 5.2	- 6.5	- 6.3
David Reid	1788	- 21.5	- 22.6	- 24.3	- 23.8	- 21.8	- 20.6	- 18.6	- 18.4	- 16.4	- 14.4
Webster	1908	- 0.3	- 6.0	- 4.8	- 3.9	+ 1.3	- 2.0	+ 4.4	+ 3.7	+ 1.5	+ 3.0
Hume	2014	+ 13.8	+ 13.6	+ 14.0	+ 13.8	+ 3.7	+ 11.0	+ 11.1	+ 14.9	+ 14.9	+ 15.3
Prott	887	+ 11.8	+ 14.3	+ 16.5	+ 13.8	+ 7.9	+ 17.2	+ 9.9	+ 12.5	+ 16.8	+ 19.2
Isaac	1688	- 4.6	+ 2.4	+ 3.9	+ 4.0	+ 8.7	+ 9.2	+ 7.7	+ 5.1	+ 2.7	+ 2.7
Kalberg	4738	- 4.6	+ 2.4	+ 3.9	+ 4.0	+ 8.7	+ 9.2	+ 7.7	+ 5.1	+ 2.7	+ 2.7
Oram and Son	1833	+ 17.7	+ 17.5	+ 18.1	+ 15.9	+ 7.5	+ 10.3	+ 8.3	+ 8.0	+ 9.6	+ 9.0
Brookbank and Atkins	2038	+ 1.5	+ 0.1	- 0.1	- 1.5	+ 7.8	+ 6.0	+ 7.8	+ 3.7	+ 1.6	+ 0.5
Brookbank and Atkins	2038	+ 1.5	+ 0.1	- 0.1	- 1.5	+ 7.8	+ 6.0	+ 7.8	+ 3.7	+ 1.6	+ 0.5
Mann	4603	- 0.9	+ 4.1	+ 8.9	+ 8.9	- 2.2	- 0.8	- 1.6	- 2.7	- 3.0	- 3.4
Reid and Sons	867	- 0.9	+ 4.1	+ 8.9	+ 8.9	- 2.2	- 0.8	- 1.6	- 2.7	- 3.0	- 3.4
Glover	366	- 17.7	- 7.9	- 5.6	- 6.3	- 7.8	- 11.5	- 10.8	- 12.9	- 16.9	- 18.0
Edward and Sons	4398	- 22.7	- 27.9	- 29.0	- 29.3	- 17.4	- 18.9	- 14.9	- 13.2	- 19.5	- 19.0
Williams	4465	- 1.0	- 2.8	+ 3.1	+ 5.9	+ 7.2	+ 4.1	+ 6.9	+ 4.8	+ 1.6	- 1.3
Davison	3367	+ 0.7	+ 1.0	+ 5.3	+ 5.2	+ 6.8	+ 13.8	+ 8.0	+ 11.9	+ 10.7	+ 10.9
Key	888	- 0.4	- 6.7	- 0.7	- 0.8	- 0.8	- 0.9	- 0.2	- 0.2	- 8.4	- 7.1
C. Frodham and Co.	0013	- 0.4	- 6.7	- 0.7	- 0.8	- 0.8	- 0.9	- 0.2	- 0.2	- 8.4	- 7.1
Webster	16704	- 10.0	- 9.9	- 7.5	- 7.4	- 11.8	- 17.6	- 18.9	- 21.7	- 20.1	- 20.4
Oram and Son	711	+ 13.0	+ 15.5	+ 11.3	+ 14.9	+ 1.5	+ 3.9	+ 4.1	+ 7.1	+ 3.6	+ 4.3
Webb	510	+ 3.3	+ 9.9	- 6.0	- 15.1	- 12.1	- 7.2	- 9.2	- 2.9	- 3.3	- 1.3
Webb	513	+ 20.1	+ 25.1	+ 16.2	+ 9.9	+ 13.2	+ 23.9	+ 19.6	+ 17.7	+ 30.6	+ 30.9
James Poole and Co.	2680	- 3.3	- 11.6	- 11.3	- 13.7	- 22.5	- 18.4	- 21.3	- 21.4	- 20.9	- 20.0
Reid and Sons	5735	+ 2.6	- 2.9	+ 1.0	- 5.8	+ 4.0	+ 4.0	+ 3.4	+ 0.4	+ 1.4	+ 0.4
Hewitt	5826	+ 15.4	- 24.7	- 19.5	- 13.8	- 4.5	- 12.4	- 6.7	- 9.5	- 21.8	- 26.3
Swill	4410	- 1.1	- 0.7	+ 5.6	+ 1.1	- 2.0	- 0.6	- 2.7	- 5.8	- 3.0	- 1.5
Hewitt	5552	- 1.1	- 0.7	+ 5.6	+ 1.1	- 2.0	- 0.6	- 2.7	- 5.8	- 3.0	- 1.5
Key	884	- 6.1	- 2.0	+ 3.3	+ 4.0	+ 4.5	+ 5.4	+ 2.6	+ 4.7	+ 7.8	+ 7.8
Brookbank and Atkins	2034	+ 13.8	+ 20.7	+ 1.1	+ 1.3	+ 3.9	+ 1.9	+ 10.9	+ 11.4	+ 10.9	+ 10.9
Williams	4796	- 5.5	+ 0.3	+ 0.1	- 8.0	- 4.7	- 1.7	- 4.1	- 4.7	- 4.3	- 4.1
Swill	4410	- 4.7	+ 3.4	+ 3.4	+ 12.3	- 1.0	+ 0.9	- 3.1	- 3.4	- 3.0	- 1.9
Swill	4413	- 4.7	+ 3.4	+ 3.4	+ 12.3	- 1.0	+ 0.9	- 3.1	- 3.4	- 3.0	- 1.9
Oram and Son	19181	+ 9.1	+ 7.7	- 2.3	- 0.5	+ 6.9	+ 12.2	+ 12.7	+ 10.7	+ 18.9	+ 21.2
Webster	19083	+ 9.4	+ 2.5	- 25.1	- 9.7	- 16.2	- 8.9	- 7.8	- 11.5	- 12.1	- 12.1
Prott	878	+ 6.8	+ 12.7	+ 10.7	+ 13.2	+ 4.6	+ 4.0	+ 2.1	- 2.7	- 0.2	- 1.6
Mercer	4827	+ 1.5	+ 12.4	+ 10.5	+ 13.6	- 9.5	+ 1.9	- 9.8	- 8.0	- 0.6	- 0.6
David Reid	880	+ 1.5	+ 12.4	+ 10.5	+ 13.6	- 9.5	+ 1.9	- 9.8	- 8.0	- 0.6	- 0.6
Oram and Son	19107	+ 10.7	+ 10.6	+ 8.5	- 4.5	- 0.0	+ 1.7	- 3.5	+ 0.5	+ 5.1	+ 1.5
Klean and Co.	1006	+ 11.3	+ 27.8	+ 23.7	+ 16.0	+ 1.3	+ 1.9	+ 1.9	+ 9.6	+ 12.9	+ 12.9
C. Frodham and Co.	9600	+ 1.0	+ 7.0	+ 14.2	+ 17.8	+ 13.6	+ 13.9	+ 10.7	+ 15.6	+ 11.9	+ 12.9
James Poole and Co.	2681	+ 10.2	+ 15.3	+ 3.0	- 1.6	- 10.0	- 12.2	- 11.8	- 9.2	+ 11.7	+ 9.2
Schoof	6059	+ 4.8	+ 10.8	+ 8.3	+ 9.8	+ 12.8	+ 13.8	+ 13.1	+ 12.0	+ 13.9	+ 17.7
Schoof	6059	+ 10.9	+ 23.7	+ 25.9	+ 33.6	- 7.0	- 6.0	- 6.7	- 7.0	- 3.5	- 3.5

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

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY, AT THE

NAME OF MAKER.	No.	Whether 2 or 8 Days.	ADDRESS OF MAKER.	Construction of Escapement and Balance. from the Description furnished by the Maker.	(III.) ABSTRACT OF	
					Least Weekly Rate.	Extremes of Temperature.
Uhrig	458	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	— 12.1	88.0—91.0
Mercer	4592	2	Prospect Road, St. Albans, Herts.	Auxiliary compensation.	— 18.9	44.0—54.0
C. Frodsham and Co.	0011	2	84, Strand, W.C.	Ordinary balance.	— 15.2	48.0—58.0
Johnson and Son	3780	2	35, Victoria Street, Derby.	Auxiliary compensation acting in extremes of (temperature.	— 4.2	44.0—54.0
Johnson and Son	3779	2	35, Victoria Street, Derby.		+ 1.6	48.0—58.0
Hume	2013	2	No. 6 Side, near the Quay, Newcastle-on-Tyne.	Auxiliary compensation for heat.	+ 2.9	64.1—71.8
Kullberg	4689	2	105, Liverpool Road, N.	Reversed detent, with short spring.	+ 4.4	49.3—59.0
Johannsen and Co.	3500	2	149, Minories, E.C.	Auxiliary acting in heat and cold.	— 1.6	64.1—71.8
Johannsen and Co.	3516	2	149, Minories, E.C.	Auxiliary acting in heat.	— 0.4	48.0—58.0
Johannsen and Co.	3588	2	149, Minories, E.C.	Auxiliary acting in heat and cold.	— 6.6	64.1—71.8
Isaac	1670	2	10, Spencer Street, Clerkenwell, E.C.	Palladium balance spring.	— 3.4	64.1—71.8
Uhrig	450	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	— 17.1	44.0—54.0
David Reid	1788	2	39, Grey Street, Newcastle-on-Tyne.	Auxiliary compensation.	— 25.3	64.1—71.8
Webster	16968	2	5, Queen Victoria Street, E.C.	Palladium balance spring.	— 5.0	54.0—61.9
Hume	2014	2	No. 6 Side, near the Quay, Newcastle-on-Tyne.	Auxiliary compensation.	+ 3.7	88.0—90.3
Pyott	887	2	74, West India Dock Road, E.	Auxiliary compensation.	+ 2.1	44.0—54.0
Isaac	1688	2	10, Spencer Street, Clerkenwell, E.C.	Ordinary balance: bright steel spring.	— 13.7	40.4—51.5
Kullberg	4738	2	105, Liverpool Road, N.	Reversed detent, with short spring.	+ 7.5	88.0—90.3
Oram and Son	18432	2	19, Wilmington Square, W.C.	Auxiliary compensation.	— 10.3	88.0—90.3
Brockbank and Atkins ..	2038	8	6, Cowper's Court, Cornhill, E.C.	Ordinary balance.	— 3.5	40.4—51.5
Mann	4603	2	The Cross, Gloucester.	Auxiliary compensation.	— 9.8	40.4—51.5
Reid and Sons	867	2	41, Grey Street, Newcastle-on-Tyne.		— 8.0	48.0—58.0
Glover	366	2	8, Wrotham Road, Camden New Town.	Ordinary balance, with auxiliary acting in heat.	— 18.8	92.0—96.0
Edward and Sons	4936	2	1, Poultry, E.C.	Ordinary balance, with auxiliary compensation.	+ 0.3	39.0—55.2
Williams	4465	2	3, Bute Docks, Cardiff.		— 29.3	64.1—71.8
Davison	3367	2	No. 6 Side, near the Quay, Newcastle-on-Tyne.	Auxiliary compensation.	— 6.4	40.4—51.5
Keys	888	2	15, Craven Street, Strand, W.C.	Improved balance.	+ 0.7	48.0—58.0
C. Frodsham and Co.	0012	2	84, Strand, W.C.	Ordinary balance.	— 9.2	92.0—95.0
Webster	16704	2	5, Queen Victoria Street, E.C.	Ordinary balance.	— 21.7	92.0—95.0
Oram and Son	7115	2	19, Wilmington Square, W.C.	Ordinary balance.	— 0.4	40.4—51.5
Webb	510	2	90, High Street, Islington, N.	Auxiliary compensation acting in heat.	— 15.1	64.1—71.8
Webb	513	2	90, High Street, Islington, N.	Auxiliary compensation acting in heat.	+ 8.9	64.1—71.8
James Poole and Co.	5800	2	33, Spencer Street, Clerkenwell, E.C.	Poole's auxiliary.	— 22.5	88.0—90.3
Reid and Sons	5785	2	41, Grey Street, Newcastle-on-Tyne.	Poole's auxiliary.	— 2.9	54.9—61.9
Hewitt	5626	2	4, Spencer Street, Clerkenwell, E.C.	Poole's auxiliary.	— 25.3	92.0—96.0
Sewill	4420	2	30, Cornhill, E.C.	Ordinary balance.	— 16.1	40.4—51.5
Hewitt	5552	2	4, Spencer Street, Clerkenwell, E.C.	Poole's auxiliary.	— 6.3	48.0—58.0
Keys	884	2	15, Craven Street, Strand, W.C.	Auxiliary compensation.	— 2.3	48.0—58.0
Brockbank and Atkins ..	2054	2	6, Cowper's Court, Cornhill, E.C.	Ordinary balance.	— 16.8	40.4—51.5
Williams	8798	2	3, Bute Docks, Cardiff.	Ordinary balance, with auxiliary compensation.	— 3.6	88.0—91.0
Sewill	4419	2	30, Cornhill, E.C.	Ordinary balance.	— 15.5	40.4—51.5
Sewill	4418	2	30, Cornhill, E.C.	Ordinary balance.	— 16.6	40.4—51.5
Oram and Son	19181	2	19, Wilmington Square, W.C.	Auxiliary compensation.	— 2.3	60.3—66.5
Webster	15083	2	5, Queen Victoria Street, E.C.	Ordinary balance.	— 26.2	60.3—66.5
Pyott	878	2	74, West India Dock Road, E.	Ordinary balance, with slight alteration.	— 2.7	92.0—95.0
Mercer	4827	2	Prospect Road, St. Albans, Herts.	Auxiliary compensation.	— 10.5	40.4—51.5
David Reid	850	2	39, Grey Street, Newcastle-on-Tyne.	Auxiliary compensation.	— 10.8	44.0—54.0
Oram and Son	19107	8	19, Wilmington Square, W.C.	Ordinary balance.	+ 4.9	92.0—95.0
Klean and Co.	1003	2	70, Myddleton Street, Clerkenwell, E.C.	Poole's auxiliary.	— 10.4	44.0—54.0
C. Frodsham and Co.	3600	8	84, Strand, W.C.	Ordinary balance.	— 15.0	88.0—90.3
James Poole and Co.	5801	2	33, Spencer Street, Clerkenwell, E.C.	Poole's auxiliary.	— 13.0	40.4—51.5
Schoof	6059	2	99, St. John's Street Road, E.C.	Schoof's resilient lever escapement.	— 7.8	88.0—90.3

The sign + indicates that the rate is gaining.

THE PRINCIPAL CHANGES OF RATE DURING THE 15 WEEKS.

Mean Temperature.	Greatest Weekly Rate.	Extremes of Temperature.	Mean Temperature.	Difference between the Greatest and Least. (a)	Greatest Difference between one Week and the next. (b)	Mean Temperatures for these two Weeks.	a + 2 b.	NAME OF MAKER.	No.
89.8 47.6 93.7 54.3 47.6 54.3	— 7.2 — 12.9 — 7.0 + 4.1 + 10.5	39.0 — 55.2 49.3 — 59.0 64.1 — 71.8 49.3 — 59.0 88.0 — 91.0	48.3 53.8 68.3 53.8 89.8	4.9 6.0 8.2 8.3 8.9	3.3 4.0 3.5 5.5 6.1	48.3 — 89.4 63.6 — 68.3 58.0 — 63.6 54.3 — 52.9 93.7 — 54.3	11.5 14.0 15.2 19.3 21.1	Uhrig Mercer C. Frodsham and Co..... Johnson and Son..... Johnson and Son.....	458 4592 0011 3780 3779
68.3 53.8 68.3 54.3 68.3	+ 11.3 + 14.5 + 7.5 + 11.7 + 5.3	40.4 — 51.5 92.0 — 96.0 92.0 — 96.0 40.4 — 51.5 92.0 — 95.0	45.2 94.3 94.3 45.2 93.7	8.4 10.1 9.1 12.1 11.9	7.1 6.4 6.9 5.8 5.9	48.3 — 89.4 53.8 — 89.8 94.3 — 58.0 47.6 — 45.2 93.7 — 54.3	22.6 22.9 22.9 23.7 23.7	Hume Kullberg Johannsen and Co..... Johannsen and Co..... Johannsen and Co.....	2013 4689 3500 3516 3588
68.3 47.6 68.3 58.0 89.4	+ 6.7 — 5.2 — 14.6 + 7.1 + 15.3	88.2 — 94.9 92.0 — 95.0 90.2 — 95.8 39.0 — 55.2 92.0 — 96.0	92.6 93.7 93.6 48.3 94.3	10.1 11.9 10.7 12.1 11.6	6.9 6.1 7.2 7.0 7.4	48.3 — 89.4 48.3 — 89.4 94.3 — 58.0 94.3 — 58.0 89.4 — 92.6	23.9 24.1 25.1 26.1 26.4	Isaac Uhrig David Reid Webster Hume	1670 450 1788 16968 2014
47.6 45.2 89.4 89.4 45.2	+ 19.2 + 6.4 + 18.5 + 4.3 + 12.8	92.0 — 96.0 64.1 — 71.8 49.3 — 59.0 49.3 — 59.0 64.1 — 71.8	94.3 68.3 53.8 53.8 68.3	17.1 20.1 11.0 14.6 16.3	5.6 5.1 9.7 8.3 7.6	53.8 — 89.8 94.3 — 58.0 93.7 — 54.3 53.8 — 89.8 48.3 — 89.4	28.3 30.3 30.4 31.2 31.5	Pyott..... Isaac Kullberg Oram and Son..... Brockbank and Atkins	887 1688 4738 18432 2038
45.2 54.3 94.3 48.3 68.3	+ 8.8 + 7.2 — 5.8 + 16.4 — 13.2	64.1 — 71.8 40.4 — 51.5 60.3 — 66.5 64.1 — 71.8 92.0 — 95.0	68.3 45.2 63.6 68.3 93.7	18.6 15.2 13.0 16.1 16.1	7.5 9.3 10.9 9.5 9.5	94.3 — 58.0 94.3 — 58.0 94.3 — 58.0 94.3 — 58.0 93.7 — 54.3	33.6 33.8 34.8 35.1 35.1	Mann Reid and Sons..... Glover Edward and Sons Williams	4603 867 366 4936 4465
45.2 54.3 93.7 98.7 45.2	+ 7.2 + 14.4 + 5.8 — 5.9 + 15.5	88.0 — 90.3 49.3 — 59.0 44.0 — 54.0 39.0 — 55.2 54.9 — 61.9	89.4 53.8 47.6 48.3 58.0	13.6 13.7 15.0 15.8 15.9	10.9 11.2 11.2 11.2 11.3	48.3 — 89.4 93.7 — 54.3 48.3 — 89.4 93.7 — 54.3 94.3 — 58.0	35.4 36.1 37.4 38.2 38.5	Davison Keys C. Frodsham and Co. Webster Oram and Son.....	3367 888 0012 16704 715
68.3 68.3 89.4 58.0 94.3	+ 3.3 + 30.9 — 6.6 + 16.8 — 2.6	49.3 — 59.0 92.0 — 96.0 49.3 — 59.0 39.0 — 55.2 39.0 — 55.2	53.8 94.3 53.8 48.3 48.3	18.4 22.0 15.9 19.7 22.7	10.5 8.9 12.1 10.8 9.4	53.8 — 89.8 58.0 — 63.6 93.7 — 54.3 48.3 — 89.4 89.8 — 93.6	39.4 39.8 40.1 41.3 41.5	Webb..... Webb..... James Poole and Co. Reid and Sons..... Hewitt	510 513 5800 5785 5626
45.2 54.3 54.3 45.2 89.8	+ 9.1 + 8.0 + 20.7 + 8.0 + 12.5	64.1 — 71.8 88.0 — 90.3 64.1 — 71.8 64.1 — 71.8 50.0 — 57.2	68.3 89.4 68.3 68.3 52.9	25.2 14.3 23.0 24.8 16.1	8.2 13.9 10.3 9.7 15.2	48.3 — 89.4 94.3 — 58.0 93.7 — 54.3 47.6 — 45.2 53.8 — 89.8	41.6 42.1 43.6 44.2 46.5	Sewill Hewitt Keys Brockbank and Atkins Williams	4420 5552 884 2054 8798
45.2 45.2 63.6 63.6 93.7	+ 12.2 + 8.1 + 21.2 + 2.0 + 19.6	64.1 — 71.8 64.1 — 71.8 92.0 — 96.0 39.0 — 55.2 49.3 — 59.0	68.3 68.3 94.3 48.3 53.8	27.7 24.7 23.5 28.2 22.3	10.7 12.7 13.5 11.7 15.6	48.3 — 89.4 94.3 — 58.0 94.3 — 58.0 48.3 — 89.4 53.8 — 89.8	49.1 50.1 50.5 51.6 53.5	Sewill Sewill Oram and Son..... Webster Pyott.....	4419 4418 19181 15083 878
45.2 47.6 93.7 47.6 89.4	+ 18.6 + 17.6 + 36.5 + 17.8 + 12.8	64.1 — 71.8 50.0 — 57.2 60.3 — 66.5 64.1 — 71.8 54.9 — 61.9	68.3 52.9 63.6 68.3 58.0	29.1 28.4 31.6 28.2 27.3	13.1 18.0 18.3 20.3 21.5	94.3 — 58.0 53.8 — 89.8 94.3 — 58.0 48.3 — 89.4 94.3 — 58.0	55.3 64.4 68.2 63.8 70.3	Mercer David Reid Oram and Son..... Klean and Co..... C. Frodsham and Co.	4827 850 19107 1006 3600
45.2 89.4	+ 17.7 + 25.9	92.0 — 96.0 60.3 — 66.5	94.3 63.6	30.7 33.7	23.6 29.6	48.3 — 89.4 48.3 — 89.4	77.9 92.9	James Poole and Co. Schoof	5801 6059

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.