



Serial	Signature	Remarks	Attested	Assigned	Standard
			sale date	other date (by museum)	
6	Troughton	Greenwich S310		1790	1790
12	Troughton	Stimson		1790	1790
69	Troughton	Greenwich S294		1790	1791
200	Troughton	Greenwich S247		1790	1794
251	Troughton	Stimson	1795		1795
260	Troughton	Greenwich S251		1790	1795
294	Troughton	Greenwich S104		1802	1796
482	Troughton	Stimson	1801		1801
483	Troughton	Stimson	1801		1801
488	Troughton	Stimson	1801		1801
576	Troughton	Stimson	1805		1803
645	Troughton	Utrecht University museum; purchased by a professor Gerrit Moll on a visit to London in 1804 and in university hands ever since.	1804		1804
943	Troughton	Christie's auction 10-2000			1811
1003	Troughton	Greenwich S152		1820	1812
1086	Troughton	Private collection			1814
1418	Troughton	Brewington			1822
1464	Troughton	Ifland (It is reported that this number was a misprint and that the instrument shown in the book as number 1464 is actually number 1467).			1823
1466	Troughton	Private collection			1823
1467	Troughton	Ifland; mounted on stand			1823
1469	Troughton	Private collection			1823
1530	Troughton	Stimson (Assigned date shown is simply latest date possible for Troughton instrument before change to Troughton & Simms; actual date could be earlier.)		1826	1825
1843	Troughton & Simms	Greenwich S150. Shown as 843, assumed to be misprint for 1843		1830	1832
1886	Troughton & Simms	Brewington; Stimson (Certificate date)	1833		1833
1943	Troughton & Simms	E-Bay auction 2000			1834
2345	Troughton & Simms	Phillips auction 1988			1843
2389	Troughton & Simms	Christie's auction 10-2000			1844
2518	Troughton & Simms	Private collection			1847
2739	Troughton & Simms	Greenwich S159		1840	1852
3240	Troughton & Simms	Sotheby's auction 2000, sold for about £2,000 (Plaque date)	1878		1864

**Notes:**

Brewington -- M. V. Brewington, *Navigating Instruments: The Peabody Museum Collection of Navigating Instruments, with notes on their makers*. Salem, Massachusetts: Peabody Museum, 1963.

Greenwich -- National Maritime Museum, Greenwich, England collection. S numbers are museum inventory numbers. Per information provided by Frederic Tulleners <tullenf@ns.net> in Sextants group message on 9 October 2000.

Ifland -- Peter Ifland, *Taking the Stars: Celestial Navigation from Argonauts to Astronauts*. Malabar, Florida: Krieger P. Co. with the Mariners' Museum, 1998.

Stimson -- A[lan] [Neale] Stimson, "The influence of the Royal Observatory at Greenwich upon the design of 17th and 18th century angle-measuring instruments at sea", *Vistas in Astronomy*, 1976, vol.20, pp.123-130

Standard date -- Date estimated by the regression equation, truncated to lowest whole year.

Serial	Date	Date = b + m x Serial	
251	1795	b	1789.9811
482	1801	m	0.0228918
483	1801	1/m	43.683756
488	1801		
576	1805	Serial	Date
645	1804	0	1789.9811
1886	1833	2000	1835.7647

XLSTAT - Regression / Started on 25/10/2000 at 10:14:07 PM

Input data :

Y variable : Workbook = Troughton serials & dates 2.xls / Sheet = Sheet2 / Range = \$B\$2:\$B\$8

Numerical variables : Workbook = Troughton serials & dates 2.xls / Sheet = Sheet2 / Range = \$A\$2:\$A\$8

Categorical variables : None

	Mean	Std. dev.	Min	Max
Y	1805.714	12.44607	1795	1833
Variable X	687.2857	542.3749	251	1886

Correlation coefficient r : 0.9976

Determination coefficient r<sup>2</sup> : 0.9952

Adjusted determination coefficient : 0.9942

Evaluating significance of information carried by variables (H0 = Y=Mean(Y)):

	DF	Sum of squ	Mean of sq	Fisher's F	Pr > F
Model	1	924.9336	924.9336	1028.8431	0.0001
Residuals	5	4.4950	0.8990		
Total	6	929.4286			

Model analysis (Type I SS) :

Source	DF	Type I SS	Mean Square	Fisher's F	Pr. >F
Variable X	1	924.9336	924.9336	1028.8431	0.0001

Regression parameters and corresponding statistics :

	Value	Std dev.	Student's t	ponding p	lower 95% bound	upper 95% bound
Intercept	1789.981	0.6075	2946.6017	0.0001	1788.4195	1791.5426
Variable X	0.022892	0.0007	32.0756	0.0001	0.0211	0.0247

The equation of the model writes :  $Y = 1789.98107544343 + 2.28918045928006E-02 * X1$