XL. Catalogue of corresponding eclipses at one period distance

Mr. Thomas Yeates

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XL. Catalogue of corresponding Eclipses at one Period
Distance. By Mr. THOMAS YEATES.

[Continued from vol. 55, p. 247.]

A.D.	Where observed.	D.	H.	M.	A.D.	D.	H.
1	☉ Pekin	June	10	1 10	913	☉ June	7 9 M.
5	☉ Rome	March	28	4 13	917	☉ Sept.	5 0 M.
14	☾ Pannonia	Sept.	26	17 15	926	☾ Sept.	24 9½ M.
27	☉ Canton	July	22	8 56	939	☉ July	19 8½ M.
					Paris	July	18 19 45
30	☉ Canton	Nov.	13	19 20	942	☉ Nov.	11 6½ M.
40	☉ Pekin	April	30	5 50	952	☉ April	26 10½ N.
45	☉ Rome	July	31	22 1	957	☉ July	29 4 N.
46	☉ Pekin	July	21	22 25	958	☉ July	19 8 M.
	☾ Rome	Dec.	31	9 52		☾ Dec.	28 10½ N.
49	☉ Pekin	May	20	7 16	961	☉ May	17 8½ M.
					Rheims	May	16 20 13
53	☉ Canton	March	8	20 42	965	☉ March	6 3½ M.
55	☉ Pekin	July	12	21 50	967	☉ July	10 6½ M.
56	☉ Canton	Dec.	25	0 28	968	☉ Dec.	22 9 M.
59	☉ Rome	April	30	3 8	971	☉ April	27 5½ N.
60	☉ Canton	Oct.	13	3 31	972	☉ Oct.	10 3½ M.
65	☉ Canton	Dec.	15	21 50	977	☉ Dec.	13 8½ M.
69	☾ Rome	Oct.	18	10 43	981	☾ Oct.	16 3 M.
70	☉ Canton	Sept.	22	21 13	982	☉ Sept.	20 3 M.
71	☉ Rome	March	4	8 32	983	☾ March	1 11½ N.
95	☉ Ephesus	May	21		1007	☉ May	19 8 M.
125	☾ Alexand.	April	5	9 16	1037	☾ April	2 11½ N.
					Paris	☉ April	17 20 45
133	☾ Alexand.	May	6	11 44	1045	☾ May	3 9½ N.
134	☾ Alexand.	Oct.	20	11 5	1046	☾ Oct.	17 7½ N.
136	☾ Alexand.	March	5	15 56	1048	☾ March	3 6½ M.
237	☉ Bologna	April	12		1149	☉ April	12 9½ N.
238	☉ Rome	April	1	20 20	1150	☉ March	
290	☉ Carthage	May	15	3 20	1202	☉ May	13 3½ M.
304	☾ Rome	Aug.	31	9 36	1216	☾ Aug.	28 9½ N.
316	☉ Constan.	Dec.	30	19 53	1228	☉ Dec.	28 8 M.
					Naples	Dec.	27 9 55
334	☉ Toledo	July	17	Noon	1246	☉ July	14 1 N.
348	☉ Constan.	Oct.	8	19 24	1260	☉ Oct.	6 12 N.
360	☉ Ispahan	Aug.	27	18 0	1272	☉ Aug.	25 1½ M.
					Vienna	☾ Aug.	10 7 27
364	☾ Alexand.	Nov.	25	15 24	1276	☾ Nov.	22 2½ M.
					Vienna	Nov.	22 15 0

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A.D.	Where observed.	D.	H.	M.	A.D.	D.	H.	M.
401	» Rome	June	11		1313	» June	9	9 M.
	» Rome	Dec.	6	12 15		» Dec.	3	8½ N.
					Torcello	Dec.	3	8 58
402	» Rome	June	1	8 43	1314	» May	30	2½ M.
	» Rome	Nov.	10	20 33		» Nov.	8	2 N.
447	» Compos ^{la}	Dec.	23	0 46	1359	» Dec.	5	7½ N.
451	» Compos ^{la}	April	1	16 34	1363	» March	30	5 M.
	» Compos ^{la}	Sept.	26	6 30		» Sept.	23	8½ N.
458	» Chaves	May	27	23 16	1370	» May	25	4½ N.
462	» Compos ^{la}	March	1	13 2	1374	» Feb.	27	7½ M.
464	» Chaves	July	19	19 1	1376	» July	17	8½ M.
484	» Constan.	Jan.	13	19 53	1396	» Jan.	11	11 M.
					Augsburg	Jan.	11	0 16
486	» Constan.	May	19	1 10	1398	» May	16	5 N.
497	» Constan.	April	18	6 5	1409	» April	15	1½ N.
					Constantinople	April	15	3 1
512	» Constan.	June	28	23 8	1424	» June	26	2½ N.
					Wittenburg	June	26	3 57
538	» England	Feb.	14	19 0	1450	» Feb.	12	1 N.
540	» London	June	19	20 15	1452	» June	17	3 N.
577	» Tours	Dec.	10	17 28	1489	» Dec.	8	5 M.
					R. C.*	Dec.	7	17 41
581	» Paris	April	4	13 33	1493	» April	2	1 M.
					R. C.	April	1	14 0
582	» Paris	Sept.	17	12 41	1494	» Sept.	15	6½ M.
					R. C.	Sept.	14	19 45
590	» Paris	Oct.	18	6 30	1502	» Oct.	15	11 N.
					R. C.	Oct.	15	12 20
592	» Constan.	Mar.	18	22 6	1504	» March	16	1½ N.
603	» Paris	Aug.	12	3 3	1515	» Aug.	9	9 N.
622	» Constan.	Feb.	1	11 28	1534	» Jan.	30	1½ M.
					R. C.	Jan.	29	14 25
644	» Paris	Nov.	5	0 30	1556	» Nov.	2	8 M.
					NEW STYLE.			
680	» Paris	June	17	12 30	1592	» June	24	10 13
683	» Paris	April	16	11 30	1595	» April	24	4 12
693	» Constan.	Oct.	4	23 54	1605	» Oct.	12	2 32
716	» Constan.	Jan.	13	7 0	1628	» Jan.	20	10 11
718	» Constan.	June	3	1 15	1630	» June	10	7 47
733	» England	Aug.	13	20 0	1645	» Aug.	21	0 35
734	» England	Jan.	23	14 0	1646	» Jan.	30	18 11
752	» England	July	30	13 0	1664	» Aug.	6	11 45
753	» England	June	8	22 0	1665	» July	26	11 A.
	» England	Jan.	23	13 0		» Jan.	30	18 47

* Ricciolus's Catalogue.

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A.D.	Where observed.	D.	H.	M.	A.D.	N. S.	D.	H.
760	☉ Englad Aug.	15	4	0	1672	☉ Aug.	22	6 43
	» London Aug.	30	5	50		» Sept.	6	18 54
764	☉ England June	4		noon.	1676	☉ June	10	21 26
770	» London Feb.	14	7	12	1682	» Feb.	21	11 N.
774	» Rome Nov.	22	14	37	1686	» Nov.	29	12 22
784	» London Nov.	1	14	2	1696	» Nov.	9	12 22
787	☉ Constan. Sept.	14	20	43	1699	☉ Sept.	23	22 38
796	» Constan. March	27	16	22	1708	» April	5	6 M.
800	» Rome Jan.	15	9	0	1712	» Jan.	23	8 A.
807	☉ Angoul ^{me} Feb.	10	21	24	1719	☉ Feb.	19	7 M.
	» Paris Feb.	25	13	43		» March	6	8 M.
	» Paris Aug.	21	10	20		» Aug.	29	9 A.
809	☉ Paris July	15	21	33	1721	☉ July	24	9 M.
	» Paris Dec.	25	8	0		☉ Dec.	19	1 M.
810	» Paris June	20	8	0	1722	» June	29	3 M.
	☉ Paris Nov.	30	0	12		☉ Dec.	8	3 A.
	» Paris Dec.	14	8	0		» Dec.	22	4 A.
812	☉ Constan. May	14	2	13	1724	☉ May	22	7 A.
813	☉ Cappad ^a May	3	17	15	1725	☉ May	12	10½ M.
817	» Paris Feb.	5	5	42	1729	» Feb.	13	6 A.
818	☉ Paris July	6	18	0	1730	☉ July	15	5 M.
820	» Paris Nov.	23	6	26	1732	» Dec.	1	10 N.
824	» Paris March	18	7	55	1736	» March	26	12 N.
828	» Paris Dec.	24	13	45	1740	» —	—	—
831	» Paris April	30	6	19	1743	» May	8	3½ A.
	☉ Paris May	15	23	0		☉ May	23	6 A.
	» Paris Oct.	24	11	18		» Nov.	2	3 M.
832	» Paris April	18	9	0	1744	» April	26	9 A.
840	☉ Paris May	4	23	22	1752	☉ May	13	8 A.
841	☉ Paris Oct.	17	18	58	1753	☉ Oct.	26	10 M.
842	» Paris March	29	14	38	1754	» April	7	8½ M.
843	» Paris March	19	7	1	1755	» March	28	1 M.
861	» Paris March	29	15	7	1773	» April	7	9 M.
878	» Paris Oct.	14	16	0	1790	» Oct.	23	1 M.
883	» Arracta July	23	7	14	1795	» July	31	8 A.
889	☉ Constan. April	3	17	52	1801	☉ April	13	4 M.
891	☉ Constan. Aug.	7	23	48	1803	☉ Aug.	17	8 M.
901	» Arracta Aug.	2	15	7	1813	» Aug.	12	3 M.
904	» London May	31	11	47	1816	» June	10	1 M.
	» London Nov.	25	9	0		» Dec.	4	9½ Af.
912	» London Jan.	6	15	12	1824	» Jan.	16	9 M.

Note. All the historical eclipses in the above Catalogue are taken from Mr. Ferguson's *Tables*, and their corresponding ones from *L'Art de vérifier les Dates*, Paris 1785.

Series

*Series of corresponding Eclipses in a Lunar Cycle at one
Period Distance.*

[Appendix to page 445, vol. 55.]

A.D. O. Style.	D.	H. M.	A.D. N. Style.	D.	H. M.
889 ● March 21	2	30 M.	1801 ● Mar. 30	5	30 M.
○ April 4	4	30 M.	○ April 13	4	30 M.
○ — — —	—	—	○ Sept. 8	6	0 M.
● Sept. 13	4	30 M.	● Sept. 22	7	30 M.
890 ● March 10	—	Noon.	1802 ♀ March 19	11	30 M.
○ Aug. 19	10	0 M.	○ Aug. 28	7	30 M.
● Sept. 2	5	0 Af.	♀ Sept. 11	11	0 N.
891 ○ Feb. 12	4	0 Af.	1803 ○ Feb. 21	—	—
○ Aug. 8	10	30 M.	○ Aug. 17	8	30 M.
♀ Aug. 23	9	30 M.	♀ — — —	—	—
892 ♀ — — —	—	—	1804 ♀ Jan. 26	9	30 Af.
○ Feb. 2	8	0 M.	○ Feb. 11	11	30 M.
♀ July 13	3	30 Af.	♀ July 22	5	30 Af.
893 ● Jan. 6	5	30 M.	1805 ● Jan. 15	9	0 M.
○ June 17	5	0 Af.	○ June 26	11	0 Af.
● July 2	10	45 Af.	● July 11	9	0 Af.
● Dec. 26	7	30 Af.	● Jan. 4	—	—
894 ♀ — — —	—	—	1805 ♀ Jan. 5	0	0 M.
○ June 7	10	0 M.	○ June 16	4	0 Af.
♀ June 22	0	30	♀ June 30	10	0 Af.
○ — — —	—	—	○ Dec. 10	2	30 M.
♀ Dec. 16	11	30 M.	♀ — — —	—	—
895 ♀ — — —	—	—	1807 ♀ May 21	5	30 Af.
○ May 28	2	0 M.	○ June 6	5	30 M.
♀ — — —	—	—	♀ Nov. 15	8	30 M.
○ Nov. 20	9	30 M.	○ Nov. 29	—	Noon.
896 ♀ May 1	2	30 M.	1808 ● May 10	8	0 M.
♀ Oct. 25	0	30 M.	● Nov. 3	9	0 M.
○ — — —	—	—	○ Nov. 18	3	0 M.
897 ○ April 5	11	0 Af.	1809 ○ April 14	—	—
● April 20	7	0 Af.	♀ April 30	1	0 M.
● Oct. 14	11	45 M.	♀ Oct. 23	9	30 M.
898 ○ Mar. 26	1	0 M.	1810 ○ April 4	2	0 M.
♀ April 10	11	0 M.	♀ — — —	—	—
○ Oct. 3	3	0 Af.	♀ — — —	—	—
899 ○ Mar. 15	10	30 M.	1811 ○ March 24	10	0 M.
♀ Aug. 24	5	0 Af.	♀ Sept. 2	11	0 Af.
900 ● Feb. 18	9	30 M.	1812 ● Feb. 27	6	0 M.
● Aug. 13	9	30 M.	● Aug. 22	3	0 Af.
901 ○ Jan. 23	6	30 M.	1813 ○ Feb. 1	9	0 M.
● Feb. 6	10	0 M.	♀ Feb. 15	9	0 M.
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A.D.	O	Style.	D.	H.	M.	A.D.	N.	Style.	D.	H.	M.
901	●	Aug.	3	0	30 M.		▷	Aug.	12	3	15 M.
902	○	Jan.	12	4	0 Af.	1814	○	Jan.	21	2	30 Af.
	▷	Jan.	26	4	30 Af.		▷	—	—	—	—
	○	July	8	1	0 M.		○	July	17	7	0 M.
	▷	Dec.	17	6	30 Af.		▷	Dec.	26	11	30 Af.
903	▷	June	12	8	0 Af.	1815	●	June	21	6	30 Af.
	○	June	27	5	30 Af.		○	July	7	0	0 M.
	○	Dec.	7	10	0 M.		●	Dec.	16	1	15 Af.
904	●	May	31	11	30 Af.	1816	●	June	10	1	30 M.
	○	June	16	10	0 M.		○	—	—	—	—
	○	Nov.	10	7	0 M.		○	Nov.	19	10	30 M.
	●	Nov.	25	9	30 Af.		●	Dec.	4	9	0 Af.
905	○	—	—	—	—	1817	○	May	16	7	0 M.
	▷	May	21	10	30 M.		▷	May	30	3	30 Af.
	▷	—	—	—	—		○	Nov.	9	2	30 M.
906	▷	—	—	—	—	1818	▷	April	21	0	30 M.
	○	April	26	10	0 M.		○	May	5	7	30 M.
	▷	—	—	—	—		▷	Oct.	14	6	0 M.
907	●	April	1	10	30 M.	1819	●	April	10	1	30 Af.
	○	April	15	11	30 M.		○	April	24	Noon.	
	○	—	—	—	—		○	Sept.	19	1	0 Af.
	▷	Sept.	24	Noon.			▷	Oct.	3	3	30 Af.
908	●	March	20	8	0 Af.	1820	▷	Mar.	29	7	0 Af.
	○	Aug.	29	5	0 Af.		○	Sept.	7	2	0 Af.
	●	Sept.	13	1	15 M.		▷	Sept.	22	7	0 M.

Note. All the eclipses in this list are computed by the author of *L'Art de vérifier les Dates*. Paris 1785.

XLI. On Lithography*.

MR. HULLMANDELL ON LITHOGRAPHY.

THE drawings I have the honour to present to the Society for promoting the Arts, Manufactures, and Commerce, are the fruits of an art invented some years ago in Germany, and but lately introduced into this country, at least in its present state of perfection. Its great advantage is that of enabling the artist to

* From the *Transactions of the Society for the Encouragement of Arts, Manufactures, and Commerce*, vol. xxxvii. The silver medal of the Society was voted to the author of the first of the subjoined papers, Mr. Hullmandell, of Great Marlborough-street, London, for the communication, and the specimens remain in the Society's Repository. The silver Isis medal was voted to Mr. Redman, of Maiden-lane, for another communication on the same subject, which we also subjoin.

offer