



## IX. True apparent right ascension of Dr. Maskelyne's 36 stars for every day in the year 1821

Rev. J. Grooby

To cite this article: Rev. J. Grooby (1821) IX. True apparent right ascension of Dr. Maskelyne's 36 stars for every day in the year 1821, *Philosophical Magazine Series 1*, 58:279, 50-52, DOI: [10.1080/14786442108652561](https://doi.org/10.1080/14786442108652561)

To link to this article: <http://dx.doi.org/10.1080/14786442108652561>



Published online: 27 Jul 2009.



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The experiments detailed in these pages were made with the apparatus belonging to the Royal and London Institutions; and I was assisted in many of them by Mr. Pepys, Mr. Allen, and Mr. Stodart, and in all of them by Mr. Faraday\*.

I am, my dear sir,

Very sincerely yours,

Lower Grosvenor-street, Nov. 12, 1820.

HUMPHRY DAVY.

of lightning passing through a box of knives, rendered most of them powerful magnets. See Philosophical Transactions, No. 157, p. 520; and No. 437, p. 57.

\* All the experiments detailed in this paper, except those mentioned p. 48, were made in the course of October 1820; the last arose in consequence of a conversation with Dr. Wollaston, and were made in the beginning of November. I find, by the *Annales de Chimie et de Physique*, for September, which arrived in London November 24, that M. Arago has anticipated me in the discovery of the attractive and magnetizing powers of the wires in the Voltaic circuit; but the phænomena presented by the action of common electricity (which I believe as yet have been observed by no other person), induce me still to submit my paper to the Council of the Royal Society. Before any notice arrived of the researches of the French philosophers, I had tried, with Messrs. Allen and Pepys, an experiment, which M. Arago likewise thought of,—whether the arc of flame of the Voltaic battery would be affected by the magnet; but from the imperfection of our apparatus, the results were not decisive. I hope soon to be able to repeat it under new circumstances.

I have made various experiments, with the hope of affecting electrified wires by the magnetism of the earth, and of producing chemical changes by magnetism; but without any successful results.

Since I have perused M. Ampere's elaborate treatise on the electro-magnetic phænomena, I have passed the electrical shock along a spiral wire twisted round a glass tube containing a bar of steel, and I found that the bar was rendered powerfully magnetic by the process.

Without meaning to offer any decided opinion on that gentleman's ingenious views, I shall beg permission to mention two circumstances, which seem to me unfavourable to the idea of the identity of electricity and magnetism; 1st, the great distance to which magnetism is communicated by common electricity (I found that a steel bar was made magnetic at fourteen inches distance from a wire transmitting an electric shock from about seventy feet of charged surface); and, 2d, that the effect of magnetizing at a distance by electricity takes place with the same readiness through air and water, glass, mica, or metals; *i. e.* through conductors and non-conductors.

IX. *True apparent Right Ascension of Dr. MASKELYNE'S 36 Stars for every Day in the Year 1821. By the Rev. J. GROOBY.*

[Continued from vol. lvii. p. 408.]

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## True apparent Right Ascension of Dr. Maskelyne's 36 Stars.

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1821.	$\gamma$ Pegasi.	$\alpha$ Arietis.		$\alpha$ Ceti.		Alde- baran.		Ca- pella.		Rigel.		$\beta$ Tauri.		$\alpha$ Ori- onis.		Sirius.		Castor.		Pro- cyon.		Pol- lux.		$\alpha$ Hy- drae.		Re- gulus.		$\beta$ Leo- nis.		$\beta$ Vir- ginis.		Spica Virginie.		Arc- turus.	
		H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.	H. M.	S.
Sept.	0	4	5	2	5	4	2	5	3	5	5	5	15	5	4	6	7	2	3	7	2	7	3	9	18	9	5	11	3	11	4	13	15	14	7
1	5	53	59	11	42	53	32	29	58	70	2	02	31	49	17	04	12	32	57	62	23	38	48	80	51	53	57	05	22	85	48	22	31	92	
2	55	81	14	57	34	73	05	17	36	32	05	52	10	52	10	36	65	40	82	65	40	82	82	54	54	54	54	05	87	20	91	20	91		
3	56	84	17	51	38	76	09	55	10	39	09	55	10	55	10	39	67	43	83	67	43	83	83	55	55	55	55	05	89	18	90	18	90		
4	58	86	20	64	43	79	13	58	13	42	13	58	13	58	13	42	70	46	85	72	46	85	85	57	57	57	57	05	91	16	88	16	88		
5	59	89	22	67	47	82	16	61	16	45	16	61	16	61	16	45	72	49	86	72	49	86	86	58	58	58	58	05	93	14	87	14	87		
6	61	91	25	70	51	85	20	64	19	48	20	64	19	64	19	48	75	52	88	75	52	88	88	59	59	59	59	06	94	13	86	13	86		
7	62	94	28	74	56	88	24	67	22	51	24	67	22	67	22	51	80	55	90	80	55	90	90	61	61	61	61	06	96	11	85	11	85		
8	63	96	30	77	60	90	28	70	25	54	28	70	25	70	25	54	80	58	91	80	58	91	91	62	62	62	62	07	97	10	84	10	84		
9	64	99	32	80	65	93	31	73	27	57	31	73	27	73	27	57	82	61	93	82	61	93	93	64	64	64	64	07	98	09	83	09	83		
10	65	100	35	83	69	96	34	76	30	61	34	76	30	76	30	61	85	64	95	85	64	95	95	65	65	65	65	08	99	09	82	09	82		
11	67	03	37	86	74	99	38	79	35	64	38	79	35	79	35	64	88	67	97	88	67	97	97	67	67	67	67	08	100	10	81	10	81		
12	68	05	39	89	78	59	41	82	36	67	41	82	36	82	36	67	91	70	98	91	70	98	98	68	68	68	68	09	100	10	80	10	80		
13	69	08	41	92	82	05	45	85	39	70	45	85	39	85	39	70	93	73	100	93	73	100	100	70	70	70	70	10	01	11	79	11	79		
14	70	10	43	95	86	08	48	88	41	73	48	88	41	88	41	73	96	76	102	96	76	102	102	72	72	72	72	10	02	11	78	11	78		
15	71	12	45	98	91	11	52	91	44	77	52	91	44	91	44	77	98	79	104	98	79	104	104	73	73	73	73	11	02	11	77	11	77		
16	72	15	48	43	01	95	55	94	47	80	55	94	47	94	47	80	80	83	06	80	83	06	83	06	83	06	83	11	03	12	76	12	76		
17	73	17	50	05	05	99	59	97	50	83	59	97	50	97	50	83	83	86	08	83	86	08	86	08	86	08	86	12	04	12	75	12	75		
18	74	19	53	08	33	03	19	62	53	86	62	32	00	32	00	53	86	86	10	86	86	10	88	10	88	10	88	13	05	12	74	13	74		
19	75	21	55	11	08	22	65	03	55	90	65	03	55	03	55	90	10	92	12	92	12	92	12	80	14	80	14	06	13	74	14	74			
20	76	23	58	14	12	25	69	06	58	93	69	06	58	06	58	93	12	95	14	95	14	95	14	82	14	82	14	06	13	73	14	73			
21	76	26	60	17	16	28	72	09	61	97	72	09	61	09	61	97	15	98	16	98	16	98	16	84	16	84	15	07	13	72	15	72			
22	77	28	62	20	20	31	76	13	64	13	76	13	64	13	64	13	24	02	19	24	02	19	86	19	86	19	86	16	08	13	71	16	71		
23	78	30	65	23	25	34	79	16	67	03	79	16	67	16	67	03	21	05	21	21	05	21	88	21	88	21	88	17	08	14	71	17	71		
24	79	32	68	26	29	37	83	19	70	07	83	19	70	19	70	07	23	08	23	23	08	23	90	23	90	23	90	18	09	14	70	18	70		
25	80	35	71	29	33	40	86	22	73	10	86	22	73	22	73	10	26	11	25	26	11	25	91	25	91	25	91	18	10	14	69	18	69		
26	80	37	73	31	37	42	90	25	76	13	90	25	76	25	76	13	29	14	27	29	14	27	93	27	93	27	93	19	11	14	69	19	69		
27	81	39	76	35	42	45	93	28	78	17	93	28	78	28	78	17	32	18	30	32	18	30	95	30	95	30	95	20	12	15	68	20	68		
28	81	41	78	37	46	48	96	31	81	20	96	31	81	31	81	20	35	21	32	35	21	32	97	32	97	32	97	21	13	15	67	21	67		
29	82	42	80	40	50	51	300	34	84	23	300	34	84	34	84	23	38	25	34	38	25	34	99	34	99	34	99	22	14	15	67	22	67		
30	82	43	82	43	54	53	03	37	87	27	03	37	87	37	87	27	41	28	36	41	28	36	52	36	52	36	52	23	15	16	67	23	67		

[illegible]