



## XXXI. Right ascension, declination, and passage of the Meridian of Ceres; and true apparent Right Ascension of Dr. Maskelyne's 36 stars for every day in the year 1821

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exactly one and a half of such water of ammonia. 100 grains of this water contain 147·2 cubic inches of gas. Hence one *grain* of water holds condensed in such aqueous ammonia, two cubic inches of the gas ; or one *volume* of distilled water is united to 505 volumes of gas.

It is a remarkable coincidence, that one volume of water when converted into aqueous muriatic acid, specific gravity 1·200 ; or into aqueous ammonia, specific gravity 0·900, expands in either case into a volume and a half.

If from 998 we deduct the specific gravity of water of ammonia, expressed in three integers, the remainder, divided by 4, will give for a quotient the quantity of alkali contained in all such liquid ammonia as is used in medicine, or in chemical researches, viz. between specific gravities 0·936 and 0·980.

XXXI. *Right Ascension, Declination, and Passage of the Meridian of Ceres ; and true apparent Right Ascension of Dr. MASKELYNE'S 36 Stars for every Day in the Year 1821. By the Rev. J. GROOBY.*

[Continued from p. 133.]

*Right Ascension, &c. of Ceres.*

1821.	Rt. Asc.		Declin.	Passage of the Meridian.
May	H.	M.		H. M.
1	16	23	14 48 S.	13 49
7	16	18	14 51	13 15
13	16	13	14 54	12 56
19	16	7	14 57	12 23
25	15	58	15 2	11 51
June 1	15	52	15 11 S.	11 14
7	15	46	15 20	11 40
13	15	42	15 30	10 6
19	15	38	15 42	10 42
25	15	35	15 56	9 19

*Table*

1821.	Pegasi.	Arietis.	♌ Ceti.	♊ Aida- baran	Ca- pella	Rigel.	♉ Tauri.	♈ Ori- ons.	Sirius.	Castor.	Pro- cyon.	Fol- lux.	♊ Hy- dre.	♋ Re- gulus.	♌ Leo- nis.	♍ Vir- ginis.	♎ Spica Virginis.	Ave- turus.
	H. M. 0 4	H. M. 1 57	H. M. 2 52	H. M. 4 25	H. M. 5 3	H. M. 5 5	H. M. 5 14	H. M. 5 45	H. M. 6 37	H. M. 7 23	H. M. 7 29	H. M. 7 34	H. M. 9 18	H. M. 9 58	H. M. 11 39	H. M. 11 41	H. M. 13 15	H. M. 14 7
May	s. 1	s. 6-26	s. 56-04	s. 39-91	s. 29-26	s. 56-63	s. 59-60	s. 29-65	s. 15-88	s. 11-20	s. 56-74	s. 22-41	s. 48-92	s. 51-82	s. 57-88	s. 24-71	s. 49-02	s. 32-85
1	2-13	28	05	91	25	62	59	64	87	18	73	39	90	81	87	70	02	86
2	15	29	06	91	25	62	59	64	86	17	72	38	89	80	87	70	03	87
3	17	30	07	91	24	61	58	63	85	16	71	37	87	79	86	69	03	87
4	20	30	07	91	24	61	58	63	85	16	71	36	86	78	85	68	03	87
5	22	31	08	91	24	61	58	62	84	15	70	36	86	78	85	68	03	87
6	25	33	09	91	24	61	58	61	83	13	69	35	85	77	84	67	03	88
7	27	34	10	91	24	60	58	60	82	12	68	34	83	76	83	67	03	88
8	30	35	10	91	23	60	58	60	81	11	67	33	82	75	83	66	04	88
9	32	37	11	92	23	60	58	60	80	10	66	32	81	74	82	66	04	89
10	34	39	12	92	23	60	58	59	79	09	65	31	80	73	81	65	04	89
11	37	41	13	92	23	60	58	59	78	08	64	30	79	72	81	65	04	89
12	40	43	15	93	23	60	58	58	77	07	63	29	78	71	80	64	04	89
13	42	45	17	93	23	60	58	58	77	06	62	28	76	69	79	64	04	89
14	45	47	18	94	23	60	58	58	76	05	61	27	75	68	78	63	04	89
15	48	49	19	94	23	60	58	58	75	04	61	26	74	67	78	62	04	89
16	51	51	21	95	24	60	58	58	74	03	60	25	73	66	77	61	04	90
17	53	53	22	95	24	60	58	58	74	02	59	24	72	65	76	60	04	90
18	56	55	24	96	24	60	58	58	73	01	58	23	71	64	76	60	04	90
19	60	58	25	97	24	60	58	57	72	10-00	58	22	70	63	75	59	03	90
20	62	60	27	98	24	60	58	57	71	99	57	21	69	62	74	58	03	90
21	65	62	28	99	25	60	58	57	70	98	56	20	68	61	73	57	03	90
22	67	65	30	40-00	25	61	59	57	70	98	56	19	67	60	72	56	02	90
23	70	67	32	01	26	61	59	58	70	97	55	19	65	59	71	55	02	90
24	73	69	34	02	27	62	60	58	69	97	55	18	64	58	70	54	01	90
25	76	71	35	02	28	62	60	58	69	96	54	17	63	57	70	54	01	90
26	79	74	37	03	29	62	61	58	69	96	54	16	62	56	69	53	01	89
27	82	76	39	04	30	63	61	59	68	96	54	16	61	55	68	53	48-00	89
28	85	78	41	05	31	63	62	59	68	95	53	16	60	54	67	52	00	89
29	88	81	43	06	32	64	63	59	67	95	53	15	59	53	66	51	00	88
30	91	83	45	07	33	64	64	60	67	94	53	15	58	52	65	50	99	88
31	94	86	47	08	34	65	65	60	67	94	53	15	57	51	64	50	98	88

1821.	1 <sup>a</sup> Libræ		2 <sup>a</sup> Libræ		3 <sup>a</sup> Cor. Bor.		4 <sup>a</sup> Serpentis.		5 <sup>a</sup> Antares.		6 <sup>a</sup> Hercules.		7 <sup>a</sup> Ophiuchi.		8 <sup>a</sup> Lyre.		9 <sup>a</sup> Aquilæ.		10 <sup>a</sup> Aquilæ.		11 <sup>a</sup> Capri.		12 <sup>a</sup> Cygni.		13 <sup>a</sup> Aquæ.		14 <sup>a</sup> Forn. alhu.		15 <sup>a</sup> Pegasi.		16 <sup>a</sup> Andromedæ.	
	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.
May 1	14 40	50-93	15 27	9-55	15 35	30-18	16 18	28-78	17 6	31-87	17 26	40-14	54-68	18 30	71	19 37	46-73	19 42	4-67	32-97	45-01	8-76	20-77	36-36	21 56	45-39	22 47	45-39	22 55	51-69	9-40	
2	14 40	94	15 27	38	15 35	56	20	80	17 6	89	17 26	17	71	18 30	71	19 37	76	19 42	70	33-00	04	79	80	39	42	42	42	42	72	43		
3	14 40	39	15 27	58	15 35	21	82	91	17 6	89	17 26	19	74	18 30	74	19 37	79	19 42	73	03	08	83	84	42	45	45	45	75	45			
4	14 40	46	15 27	40	15 35	59	22	84	17 6	93	17 26	22	77	18 30	77	19 37	82	19 42	76	06	11	86	87	45	48	48	48	78	48			
5	14 40	97	15 27	41	15 35	60	23	86	17 6	95	17 26	24	79	18 30	79	19 37	84	19 42	79	08	14	89	91	48	51	51	51	81	50			
6	14 40	98	15 27	42	15 35	62	24	88	17 6	97	17 26	26	82	18 30	82	19 37	87	19 42	82	11	17	92	94	51	55	55	55	84	53			
7	14 40	99	15 27	43	15 35	63	25	90	17 6	99	17 26	29	85	18 30	85	19 37	90	19 42	85	14	20	95	98	54	58	58	58	87	55			
8	14 40	51-00	15 27	44	15 35	64	27	92	17 6	32-01	17 26	31	88	18 30	88	19 37	93	19 42	88	17	24	98	21-02	57	62	62	62	90	58			
9	14 40	01	15 27	45	15 35	65	28	94	17 6	03	17 26	34	91	18 30	91	19 37	96	19 42	91	20	27	9-02	05	60	65	65	65	93	61			
10	14 40	02	15 27	46	15 35	66	29	96	17 6	05	17 26	36	94	18 30	94	19 37	99	19 42	94	23	30	05	09	63	68	68	68	96	64			
11	14 40	03	15 27	47	15 35	67	30	98	17 6	07	17 26	38	97	18 30	97	19 37	02	19 42	97	26	33	08	13	66	71	71	71	99	67			
12	14 40	03	15 27	47	15 35	68	31	99	17 6	09	17 26	41	55-00	18 30	05	19 37	05	19 42	500	29	36	11	17	69	75	75	75	32-02	70			
13	14 40	04	15 27	48	15 35	69	32	29-01	17 6	11	17 26	43	02	18 30	08	19 37	08	19 42	03	32	40	15	21	72	78	78	78	05	73			
14	14 40	04	15 27	48	15 35	70	33	03	17 6	13	17 26	45	05	18 30	11	19 37	11	19 42	06	35	43	18	24	75	81	81	81	08	76			
15	14 40	05	15 27	49	15 35	71	34	05	17 6	15	17 26	47	07	18 30	14	19 37	14	19 42	09	38	46	21	28	79	85	85	85	11	79			
16	14 40	05	15 27	49	15 35	72	35	07	17 6	17	17 26	49	10	18 30	18	19 37	18	19 42	12	41	50	24	32	82	88	88	88	14	82			
17	14 40	06	15 27	50	15 35	73	36	08	17 6	19	17 26	51	12	19 37	20	19 37	20	19 42	15	44	52	27	35	86	92	92	92	17	85			
18	14 40	06	15 27	50	15 35	73	37	10	17 6	21	17 26	53	15	19 37	21	19 37	21	19 42	18	47	55	30	39	89	95	95	95	20	88			
19	14 40	07	15 27	51	15 35	74	38	11	17 6	22	17 26	55	17	19 37	22	19 37	22	19 42	21	50	58	33	42	91	99	99	99	23	91			
20	14 40	07	15 27	51	15 35	74	39	13	17 6	24	17 26	57	20	19 37	24	19 37	24	19 42	24	53	61	36	46	94	46-02	46	46	26	94			
21	14 40	08	15 27	52	15 35	75	40	14	17 6	25	17 26	59	22	19 37	25	19 37	25	19 42	27	55	64	39	49	97	06	06	06	29	97			
22	14 40	09	15 27	53	15 35	76	41	15	17 6	27	17 26	60	24	19 37	26	19 37	26	19 42	29	58	67	42	53	37-00	09	09	09	32	10-00			
23	14 40	10	15 27	54	15 35	76	42	17	17 6	28	17 26	62	27	19 37	27	19 37	27	19 42	32	61	70	45	56	03	12	12	12	35	03			
24	14 40	10	15 27	54	15 35	77	43	18	17 6	30	17 26	63	29	19 37	28	19 37	28	19 42	34	64	73	48	59	06	16	16	16	38	06			
25	14 40	10	15 27	54	15 35	77	43	19	17 6	31	17 26	65	31	19 37	31	19 37	31	19 42	37	66	75	50	62	09	19	19	19	41	09			
26	14 40	11	15 27	55	15 35	78	43	20	17 6	32	17 26	67	33	19 37	33	19 37	33	19 42	40	69	78	53	66	12	22	22	22	44	12			
27	14 40	11	15 27	55	15 35	78	44	21	17 6	34	17 26	68	35	19 37	35	19 37	35	19 42	42	72	81	56	69	15	26	26	26	47	16			
28	14 40	11	15 27	55	15 35	79	45	23	17 6	35	17 26	70	38	19 37	36	19 37	36	19 42	45	75	84	59	72	18	29	29	29	50	19			
29	14 40	12	15 27	56	15 35	79	46	24	17 6	37	17 26	71	40	19 37	37	19 37	37	19 42	47	77	87	62	76	21	33	33	33	53	22			
30	14 40	12	15 27	56	15 35	80	47	25	17 6	38	17 26	73	42	19 37	38	19 37	38	19 42	50	80	90	65	79	24	36	36	36	57	25			
31	14 40	12	15 27	56	15 35	80	47	27	17 6	40	17 26	74	44	19 37	40	19 37	40	19 42	52	82	93	68	83	28	40	40	40	60	28			