

XX. *A Letter from John Bevis, M. D. to the Rev. Thomas Birch, D. D. Secretary to the Royal Society; containing Astronomical Observations, made at Vienna, by the Rev. Father Joseph Liesganig.*

Dear Sir ;

Read April 25, 1765. FATHER Leisganig, in a very polite and sensible Latin letter, dated Vienna, April 3, 1765, informs me, that a correspondence between himself and me had been recommended to him by Father Boschowick, who paid him a visit in his return from Constantinople; and Father Boschowick above a year ago sent me a very high character of his confrere's affection, affiduity, and abilities for astronomical observations. You will, therefore, Sir, be pleased to lay the inclosed sett, which I have just received from him, before the Royal Society; as they, indeed, appear to me to have been made with much care and circumspection.

By his own account, he was appointed to the Observatory of the Jesuits College at Vienna towards the end of 1754; where he found, indeed, a large stock of instruments, but mostly unfinished and imperfect; that, after spending a whole year in getting them fit for use, he had disagreeable and unavoidable avocations, which kept him some years from resuming the care of his beloved Observatory;



but that now he finds himself in possession of the following complete apparatus.

1. Two mural quadrants, each of nine feet radius, placed north and south in the meridian (the Vienna to the London foot, as 10000 to 9646).

2. A six feet quadrant, supported by a vertical axis, and convertible to any azimuth.

3. A ten feet sector, constructed in P. Boschowick's manner.

4. A four feet quadrant, placed on the azimuth circle which Tycho Brahe used at Prague.

5. A moveable quadrant of $2 \frac{1}{2}$ feet radius, which he used in the mensuration of three degrees on their meridian, by order of the Empress Queen, by means of a series of triangles, the result whereof he is calculating at this time.

6. A transit instrument of $6 \frac{1}{2}$ feet.

Together with several fixed telescopes, a gnomon 14 feet high, micrometers, &c. of all which he intends to publish a particular description, with his observations taken at Vienna reduced and compared with astronomical tables. He makes the latitude of his observatory, at the Jesuit's College, $48^{\circ} 12' 35''$.

Dear Sir,

Your affectionate,

and most obedient servant,

Clerkenwell-Close,
April 4, 1764.

J. Bevis.

1764. Occultatio Spicæ a Luna, Februar. 20.

Temp. Horolog.		Tempus Verum.	
h	'	"	
0 19	20,1	20 die Febr.	Meridies ex altitud. correspond. ☽
0 19	8,6	21 die	Meridies
		h ' "	
15 10	13,0	14 51 0,0	Immersio Spicæ in Limb. ☺ lucid.
16	11,7	56 58,8	☺ Limbus orientalis in Meridiano.
16 13	28,7	15 14 16,2	Emercio Spicæ ex Limbo obscur.
18 26	52,5	18 7 41,1	ξ Ophiuchi in Meridiano. Hujus alti- tudo major erat, quam altitudo Limbi ☺ Australis 6° 22'',5.
			Mercurius in Barom. 27 d. 10,5 l. Parif. in Therm. Reaumur. + 7,0

Eclipsis ☺, die 17 Martii.

Temp. Horolog.		Tempus Verum.	
h	'	"	
0 14	57,9	die 17	Barometri variatio à die 17 ad 18 erat à 27 d. 11 l. ad 27 d. 8 l.
0 18	45,6	die 18	Thermometri à +4 ad +5
24 0	8,3		Merid. ex altit. correspond. ☽
		h ' "	Merid.
			Revolutio Fixarum ex culminatione Rigel in Tubo fixo.
			Initium dubium umbræ densæ.
			Obscuratio o dig. 47'.
12 14	32,9	57 41,4	☺ Limbus occid. in Meridiano
15	15,4	58 23,9	☺ cornu præced. infer. in Merid.
16	42,4	59 50,8	☺ cornu sequens super. in Merid.
16	54,4	12 0 2,8	☺ Limbus orientalis in Meridiano.
			☺ cornu sequens altius erat quam Limb. ☺ eclipsatus ,8' 25''.
			Grimaldi medium immergitur.
12	3 25		Obscuratio $3\frac{1}{2}$ dig.
	6 34		Pitatus totus.
	8 15		
	10 28	4 dig.	
	14 26	4 $\frac{1}{2}$.	
			Tem.

Temp. Horolog.	Tempus Verum.	
h / //	h / //	
		5 dig.
	18 27	5 $\frac{1}{2}$.
	22 35	Fracastorius tangitur, seu incipit im-
	24 28	mergi.
	25 35	Fracastorii medium.
	26 32	Keppleri medium.
	26 57	6 dig.
	27 5	Fracastorius totus.
	29 30	Copernicus tangitur.
	31 54	6 $\frac{1}{2}$.
	33 31	Copernicus totus.
	37 30	7.
	38 54	Eratosthenes tangitur.
	39 29	Langrenus tangitur.
	41 30	Langreni medium.
	42 51	Langrenus totus.
	43 40	7 $\frac{1}{2}$.
	46 7	Manilius tangitur.
	48 15	Manilius totus.
	49 25	Menelaus et Taruntius tanguntur.
	51 10	Menelaus totus, et obscurat. 8 dig.
	54 12	Promontorium Somni tangitur.
	55 37	Mare Crisium tangitur.
	57 24	Proclus.
	59 30	Obscuratio maxima, 8 dig. 23'. Dura-
		vit fere 12'.
13 10 10		Mare Crisium totum immergitur.
23 50		Grimaldi medium emergit.
24 48		Grimaldus totus emergit.
13 47 25,4	30 19,4	$\zeta \varpi$ in Meridiano. Culminantis Δ lim- bus australis altior erat quam $\zeta \varpi$, 6'. 24''.
13 37 46		7 dig.
43 4		6 $\frac{1}{2}$.
43 40		Manilius totus emergit.
45 25		Menelaus totus.
48 6		6.
51 9		Schikardi medium.
52 50		5 $\frac{1}{2}$.

Tempus Verum.

	h	'	"
	53	27	Schikardus totus.
	56	53	5.
14	0	10	Proclus.
	0	55	4 $\frac{1}{2}$.
	1	17	Maris Crisium medium.
	2	5	Promontorium Somni totum.
	4	52	4.
	5	19	Tychonis medium.
	6	7	Tycho totus.
	7	21	Taruntius totus.
	8	49	3 $\frac{1}{2}$.
	8	52	Promont. acutum.
12	40	3.	
16	15	2 $\frac{1}{2}$.	
19	28	2.	
22	39	1 $\frac{1}{2}$.	
25	35	1.	
27	16	$\frac{1}{2}$.	
29	30	Finis umbræ densæ.	

Eclipsis

Eclipsis ☽, ante et post Meridiem 1 Aprilis.

Ante Observationem Eclipseos referam Solis et Stellarum in ejus Parallello constitutarum, culminationes, iis diebus observatas. Barometrum 1 et 3 Aprilis fere ad 27d. 91. constitut; 2 Aprilis vero circa Meridiem ad 27d. 101. Paris. Reaumurianum Therm. ostendit fere + 7: Procyone vero 3 Aprilis culminante + 8,9.

Temp. Horolog.	Tempus Verum.	
1 April.		
h m s	h m s	
0 7 31,7	23 58 56,0	☽ cornu Australius in Meridiano.
3 8 35,7	0 0 0,0	☽ centrum ex altitudibus correspond.
0 0 24,7	0 0 49,0	☽ cornu Borealis.
10 10 29,5	10 2 2,8	d ☽. Stella hæc Borealior erat quam limb. ☽ Australis culminans, 11'. 7,3'': et Australior, quam cornu ☽ Boreum cul- minans, 6'. 48'',1.
23 56 0,8		Revolutio fixarum à 1 ad 2 Aprilis.
2 April.		
0 8 14,0	0 0 0,0	☽ centrum in Meridiano.
10 6 30,5	9 58 25,5	d ☽. Stella australior erat quam limb. ☽ australis culminans, Micrometri Revolut. 6, $\frac{1}{10}$, seu 3'. 47'',0.
23 56 0,6		Revolutio fixarum à 2 ad 3 Aprilis.
3 April.		
0 7 53,1	0 0 0,0	☽ centrum in Meridiano.
6 41 37,8	6 33 50,4	Procyon. Stella Borealius erat quam ☽ limbus superior Micrometri Revol. 4,46, seu 2'. 44'',5.
31 Martii.		
22 21 50		Initium Eclipseos ☽. Pro determinanda quantitate Eclipseis usus sum Tubo dioptrico præclaro $5\frac{1}{2}$ ped. Microme- tri Revolutiones 34,14 Diametrum ☽ eo die æquabant. Definivi autem quantitatem obscurationis ad singulas Revolutiones cochleæ micometricæ, et inde ad digitos reduxi.
		Tempus

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Temp. Ver.				
h	'	''		
22	30	4	I dig.	
	32	2	1	15'
	34	0	1	30
	36	7	1	45
	38	14	2	0
	40	16		15
	42	2		30
	43	56		45
	46	12	3	0
	48	23		15
	50	28		30
	52	22		45
	54	23	4	0
	56	31		15
	58	41		30
23	0	54		45
	3	1	5	0
	5	14		15
	7	25		30
	9	40		45
	11	46	6	0
	13	59		15
	16	11		30
	18	36		45
	21	15	7	0
	23	47		15
	26	7		30
	28	39		45
	31	25	8	0
	34	20		15
	37	15		30
	40	10		45
	43	6	9	0
Sol eclipsatus imminet Meridiano				13,2

Thermom. Reaumurianum loco con-
sueto, quo radii
folares non per-
tingunt, positum,
durante Eclipsi
vix ultra $\frac{1}{2}$ grad.
mutationem subiit.
Therm. vero ejus-
modi Soli objec-
tum ostendit.

+ 18,0

17,8

16,2

15,2

14,5

Temp.

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Temp. Ver.			
1 Aprilis.			
h , "	d ,		
0 27 24	6 30	14,7	
29 41	15		
32 2	0	16,5	
34 14	5 45		
36 27	30		
38 29	15		
40 45	0	18,0	
43 6	4 45		
44 58	30		
47 6	15		
49 17	0		
51 31	3 45	18,5	
53 37	30		
55 53	15		
58 10	0		
59 58	2 45		
I I 58	30	19,0	
3 50	15		
6 38	0		
8 38	I 45		
10 41	30	21,2	
12 42	15		
14 25	0	21,5	
23 13	Finis Eclipsis tubo dioptrico insigni Eustachii Divini, pedum fere 12.		

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15 Aprilis.

15 Aprilis.

Occultatio Spicæ ϖ à d:

Tempus Verum.		
h	'	"
II 21 41,7		
Immersio Spicæ ϖ in Limbum Δ		
lucidum tubo dioptrico Diviniano		
12 pedum. Stellam tempore		
Emerfionis non vidi nisi jam à		
Δ Limbo distantem, tum ob nu-		
bes, quæ intercesserant, tum ob		
nimiam Lunæ fere plenæ lucem.		

Aliæ * * Occultationes Viennæ observatæ.

1736, Augusti	2	Occultatio	α 8.
1736, Octobr.	22	_____	α 8.
1737, Martii	8	_____	α 8.
1738, Octobr.	2	_____	α 8.
1756, Decemb.	5	_____	α 8.
1757, Decemb.	12	_____	ϵ 8.
1760, Martii	29	_____	γ ϖ .
1762, Februar.	2	_____	θ ϖ .
1762, Martii	2	_____	θ ϖ .

N. B. Δ hic adscriptis diebus etiam in Transitu per Meridianum observata est. Stellarum, \odot et Δ altitudo in Transitu per Meridianum semper observatur in Quadrante murali 9 pedum, nisi aliud Instrumentum indicetur.