

Earth. Publish'd some Years since by the Learned Dr. Burnet. Written by John Beaumont, jun. Gent. in 4to. 1693. Lond. 3. Epistola ad Regiam Societatem Londinensem qua de nuperis Terræ-motibus differitur, &c. in 4to. Lond. 1693. 4. Traité des moyens de rendre les Riviers navigables, &c. a Paris, in 8°. 1693.

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**I. The Extract of a Letter from Lisle in Flanders, May 25. N.S. 1686. giving an Account of an unusual Storm of Hail which fell there.**

— **T**Here fell in this City Hail of so great a bigness, that the least exceeded Pigeons Eggs. Several of them were weighed, and were some a quarter of a Pound, others of a Pound Weight and more. One among the rest was observed to contain a dark brown matter in the middle thereof; and being thrown into the Fire, it gave a very great Report. Others were transparent, which melted before the Fire immediately. This Storm passed over the Cittadel and Town, and left not a whole Glas in the Windows on the windward side. The Trees were broken, and some beat down, and the Partridges and Hares killed in abundance.

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**II. Observatio Solaris Eclipsis habita Die 12. Julii, 1684. Bononiæ, à Cl. V. Doño. Dominico Gulielmino.**

**D**efumebant Solis à Vertice Distantias D. D. Jo. Ludovicus Donellus & Nicolaus Ignatius Joanettus; Phasibus determinandis tres aderamus, D.D. Jo. Galeatius Manzius, Hercules Vanottus & Ego. Observationes scribebat D. Gregorius Malisardus; horas vero in horologio notabat D. Bartolomæus Ferrarius.

Horæ

| Horæ horologii<br>automati p. m.<br>Diei 12. | Horæ erutæ<br>ex distanti-<br>is observatis<br>centri solis à<br>Vertice. | Distantiæ<br>Centri so-<br>lis à Verti-<br>ce. | Phases.   |
|--|---|--|---|
| Hor. 3. 20. 00.<br>3. 34.                    | —   | —  | Eclipsis apparente so-<br>le inter nubes. Quan-<br>titas obscurationis. <i>dig.</i><br>2. 30. |
| 3. 37. 30.                                   |   |  | <i>dig.</i> 3.  |
| 3. 48. 14.                                   | 3. 47. 47.  | gr. 51. 31.                                    | <i>dig.</i> 4. 20. dubia ubiq;  |
| 3. 52. 00.                                   |   |  | <i>dig.</i> 5. optima.  |
| 3. 57. 00.                                   | 3. 56. 2.   | gr. 52. 58.                                    | <i>dig.</i> 5. 30.  |
| 4. 2. 00.                                    | 4. 2. 29.   | gr. 54. 10.                                    | <i>dig.</i> 6.  |
| 4. 4. 45.                                    | 4. 5. 59.   | gr. 54. 44.                                    | <i>dig.</i> 6. 30. optima.  |
| 4. 9. 20.                                    | 4. 9. 1.  | gr. 55. 17.                                    | <i>dig.</i> 7. exacta.  |
| 4. 14. 40.                                   | 4. 15. 43.  | gr. 56. 28.                                    | <i>dig.</i> 7.  |
| 4. 19. 00.                                   |   |  | <i>dig.</i> 7. 20. dubia.   |
| 4. 27. 44.                                   | 4. 28. 42.  | gr. 58. 39.                                    | <i>dig.</i> 7. 20.  |
| 4. 32. 35.                                   | 4. 34. 20.  |  | <i>dig.</i> 7. satis exacta.  |
| 4. 34. 20.                                   |   |  | <i>dig.</i> 6. 45.  |
| 4. 44. 30.                                   |   |  | <i>dig.</i> 6. 30.  |
| 4. 47. 15.                                   |   |  | <i>dig.</i> 6. 30.  |
| 4. 51. 30.                                   |   |  | <i>dig.</i> 6. optima.  |
| 4. 54. 38.                                   | 4. 53. 53.  | gr. 63. 16.                                    | <i>dig.</i> 5. 30. exacta.  |
| 4. 58. 2.                                    | 4. 57. 38.  | gr. 63. 56.                                    | <i>dig.</i> 5. exacta.  |
| 5. 1. 55.                                    | 5. 1. 2.  | gr. 64. 32.                                    | <i>dig.</i> 4. 30. satis exacta.  |
| 5. 4. 40.                                    | 5. 5. 28.   | gr. 65. 19.                                    | <i>dig.</i> 4. diligens ubiq;   |
| 5. 7. 0.                                     | 5. 6. 23.   | gr. 65. 28.                                    | <i>dig.</i> 3. 30. exacta.  |
| 5. 10. 30.                                   | 5. 9. 9.  | gr. 65. 58.                                    | <i>dig.</i> 3. exacta.  |
| 5. 12. 35.                                   | 5. 13. 28.  | gr. 66. 43.                                    | <i>dig.</i> 2. 30. satis exacta.  |
| 5. 16. 15.                                   | 5. 16. 14.  | gr. 67. 13.                                    | <i>dig.</i> 2. exacta.  |
| 5. 19. 50.                                   | 5. 20. 24.  | gr. 67. 57.                                    | <i>dig.</i> 1. 30. exacta.  |
| 5. 22. 30.                                   | 5. 23. 21.  | gr. 68. 28.                                    | <i>dig.</i> 1. exacta.  |
| 5. 25. 0.                                    | 5. 25. 14.  | gr. 68. 48.                                    | <i>dig.</i> 0. 30. diligens.  |
| 5. 27. 40.                                   | 5. 28. 7.   | gr. 69. 18.                                    | <i>dig.</i> 0. accuratissima.   |

Circa observationes ab initio Eclipsis usque ad medium circiter, eas quidem præter unam, aut alteram, omnis erroris expertes esse non ausim affirmare; intercurrentibus enim identidem nubibus Solis species non nihilo minor & pallidior reddebatur, unde non omnimoda certitudo promitti potest. A medio autem Eclipsis ad finem usque, cum nullis nubibus Sol impediretur, observationes certiores sunt & diligentius habitæ.

Notabile fuit; cum quantitas Eclipsis fuerit dig. 7. 20. quod non modicam aëris offuscationem debebat inducere, ut aliàs multoties in consimilibus defectibus observatum est; nihilominus tamen vix sensibiliter consuetum in sole libero aëris statum mutatum fuisse; unde plurimis solem non respicientibus orta suspicio, aut solem non defecisse, aut minimum quidem; cujus quidem rei non alia mihi videtur assignanda causa, quàm ingens vis nubium à Sole maxime illuminatarum, quæ non multum ab eo distabant; ab his enim solis radius per reflexionem, & refractionem multiplicatus certè intensior redditus deficientem aliundè splendorem potuit compensare: sic aliquando videmus præsertim occidente Sole nubes adeo illuminatas esse, ut post ejus etiam occasum, vividissimam lucem effundant, quinimo etiam umbras non semel projiciant.