

Monsieur *Bullialdus* and *M. Richeltus* account of the last Lunar Eclipse of *Januar.* 1, 1675. *St. novo* whereby it appears that the *Rudolphin* Tables or *Hecker's* calculi made thereon, do considerably differ from the Heavens both for duration and magnitude, but the *Philolaïque* Tables, less.

Tabula Philolaïca exhibent in Eclipsi visâ Januarii die 1 mane, 1676.

	<i>Uraniburgi</i>		<i>Parisiis</i>		<i>Decemb 31.</i>	<i>St. novo.</i>
	H. ' "		H. ' "			
Initium.	14. 53. 29	}	14. 13. 29	}	Digitos III. LI	
Max. obsc.	16. 0. 33		15. 20. 33			
8 Veram	16. 9. 18		15. 29. 18			
horum.	17. 7. 37		16. 27. 37.			

Sic versitudo deliquum observavit Isaac Bullialdus.

Capella Dist. à vertice. Parisiis mane

<p>G. ' "</p> <p>39 36 Penumbra tenuis.</p> <p>40 42 Penumb. crassior.</p> <p>41 43 Obscurior adhuc.</p> <hr/> <p>42 30 Initium sensibile è reg. fere Hyperb. circa g. 70.</p> <p>42 56 Digiti fere 1.</p> <hr/> <p>44 25 Umbra attingit Atlantem minorum.</p> <hr/> <p>47 28 Umbra paulo supra Barbatum, supra Lippulimum, occu- paverat Macr.M.</p> <p>48 56 U. attingerat fere catenam Mondii.</p> <p>49 54 U. atting. Montanial.</p> <hr/> <p>50 30 Attingit finem Perontic. Montem Pyram. & med. parvulum Hyperbor.</p> <p>52 7 Occupavit finem Sagaricum & Peronticum, atque Promont. Lunæ.</p> <hr/> <p>54 52 Leucopetra extra umbram.</p> <hr/> <p>55 40 Sinus peronticus extra umbram.</p> <p>55 48 Sinus Sagaricus extra umbram.</p> <p>56 17 Sinus Cercinites fere emerferat.</p> <hr/> <p>57 16 Pars sub umb. æqualis fere latitudini Paludis Mæotidis.</p> <p>58 30 Finis verus è reg. Mont. Macrocenti. circa g. 355.</p> <hr/> <p>59 6 Penumbra.</p>	<p>H. ' "</p> <p>2 6 12</p> <p>2 12 7</p> <hr/> <p>2 23 32</p> <p>2 25 48</p> <hr/> <p>2 35 11</p> <hr/> <p>2 56 27</p> <hr/> <p>3 6 20</p> <p>3 12 54</p> <hr/> <p>3 17 51</p> <hr/> <p>3 29 1</p> <hr/> <p>3 48 21</p> <hr/> <p>3 54 6</p> <p>3 55 12</p> <p>3 58 29</p> <hr/> <p>4 5 38</p> <p>4 13 56</p>	<p><i>Corficam non attingit umbra, neque Lacum Thrasymenum, propterea Eclipsis non excessit digitos III. XXX. vel minus etiam.</i></p> <p><i>Initium uno scrupulo primo vel 45" antecessit adnotatum, ita ut statim exactius possit H. 14. '22. '32. Hinc tota duratio satis præcise H. 1. 51. 24. Quare maxima observatio contigit H. 15. 18. 14.</i></p> <p style="text-align: center;"><i>Parisiis observatum. Heckerus Parisiis</i></p> <table border="0"> <tr> <td>Initium</td> <td>H. ' "</td> <td>H. ' "</td> <td rowspan="3" style="font-size: 3em; vertical-align: middle;">}</td> <td rowspan="3">Totam durat. H. 2. '24. '36.</td> </tr> <tr> <td>Max. obsc.</td> <td>14 22 32</td> <td>14 8 0</td> </tr> <tr> <td>Finis</td> <td>15 18 14</td> <td>15 20 18</td> </tr> </table> <p style="text-align: right;">Digitos. IV. '24. '31.</p> <hr/> <p><i>Tabula ergo Rudolphina ostendunt durat. longiorem observatâ '33. '13. Magnitudin. deliqui majorem '54 '31. unius digiti '60, id est, uno fere digito.</i></p> <hr/> <p><i>Argentinae sic observ. D. Julius Richelt Profess. Mathematicus, utcumque, ut ipse dicit, ob nondum absoluta correctiora instrumenta</i></p> <table border="0"> <tr> <td colspan="2" style="text-align: center;">Alto Arcturo</td> </tr> <tr> <td>G. ' "</td> <td>H. ' "</td> </tr> <tr> <td>30 30</td> <td>14 48 48</td> </tr> <tr> <td>36 0</td> <td>15 20 8</td> </tr> <tr> <td>39 50</td> <td>15 45 44</td> </tr> </table> <p>Initium.</p> <p>U. per Montem Porphyrium & Promont. Lunæ.</p> <p>U. Strinxit Lacum Thrasymen. Mont. Barontium & finem Cercinatem.</p> <hr/> <p>44 15 16 13 20 U. transit per Prom. Lunæ & Montem Cimmericum.</p> <p>46 25 16 27 36 U. tetigit Lacum nigram minorem & M. Carpathum.</p> <p>48 30 16 41 44 Defuit in Regione Hyperborea media ad Mare Hyperboreum.</p> <hr/> <p>Tota duratio observata Argent. H. 1. '52. '56. Merid. Parisiens. ab Argentonacensi distat O' 22. '48 ex fine.</p> <hr/> <p><i>Observationibus Londini factis observatum est,</i></p> <table border="0"> <tr> <td>H. ' "</td> <td>Distat ex hac Eclipsi ad ortum merid. Parisiens. a Londin. '6. '38.</td> </tr> <tr> <td>Initium</td> <td>14 16 0</td> </tr> <tr> <td>Max. obsc.</td> <td>15 11 37</td> </tr> <tr> <td>Finis</td> <td>16 7 15</td> </tr> </table> <p>Quæ ex observatione Eclipsis die vii. Julii 1675 apparuit 10. ut etiam in Eclipsi xi. Januarii ejusdem anni.</p> <p>Tota dur. 1 51 15</p>	Initium	H. ' "	H. ' "	}	Totam durat. H. 2. '24. '36.	Max. obsc.	14 22 32	14 8 0	Finis	15 18 14	15 20 18	Alto Arcturo		G. ' "	H. ' "	30 30	14 48 48	36 0	15 20 8	39 50	15 45 44	H. ' "	Distat ex hac Eclipsi ad ortum merid. Parisiens. a Londin. '6. '38.	Initium	14 16 0	Max. obsc.	15 11 37	Finis	16 7 15
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