

KG

11365

255

M.6

Tables of contents
of various books
containing records of
observations made with
various instruments
1841 — 1855 or thereabouts.

See p. 5

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See p. 5

This memorandum made May. 23 1866

Volume 1 of this series is incomplete. Pages between 168 & 257 are missing.

" 2 is complete to page 1-92 inclusive

" 3 is complete to Page Cleft only. This index extends to page 425. beyond which there seems to be none. The succeeding parts are thus numbered.

Vol. 4. { Cannot find any volume 4 or 5 except that
" 5 { two parts evidently forming a portion of vol. 3.
have been labelled "Vol 4" & "Vol 5" apparently by mistake

Vol. 6 { H. 21. Feb. 15/57. - May 13. 57. Pages 1-96 inclusive
" 22 May 13 " Sept. 1 " 97-192 "
" 23 Aug 23 " Oct. 22. " 193-298 "
" 24 Oct. 23 " Dec. 14. " 299-384 "
" 25 Dec " March 58 385-478 "
" 26 March 18/58 July 13 " 479-574 "

Vol. 7 { H. 27. July. 14/58 to Sept. 25/58 No paging
H. 28 Sep 25 " " Nov. 11/58. " "
H. 29 Nov " " " May 4/59 " "
H. 30 May 4/59 " Oct. 26. " " "

The series seems to end with "H. 56

The portion not indexed, ^{up to H. 31} contains extensive observations on globe rings of Saturn, but few on the satellites. - extensive observations on Jupiter a good deal on Mars, occasional observations on Neptune Uranus & Venus. - Original memoranda concerning divers comets particularly Donati's. Also. Originals - memoranda on photographing moon etc, comparison of magnitudes of stars (see H. 18. 440-57) with this there is a great deal of desultory observations and a cursory examination of each number of the above series shows little else that could probably have any future interest. (Some original observations & sketches concerning nebula & charts in Orion may perhaps possibly be excepted)

See Next page -

- H. 31. Oct. 26. 59 to Jan. 31. 60
Personal Equations - Leda - Laetitia - Mnemosyne - Photography
- H. 32 Jan. 31. 60. to Feb 14. 60 Photography - Aglaia Urania
Orion Jupiter Saturn. Photometry.
- H. 33 Feb 15/60 to Feb 29/60 Photometry. Saturn.
- H. 34 " 30 " " May 2 " Photometry.
- H. 35 May 2 " " June 22 " Photometry. Comets.
- H. 36 June 24 " " July 4. 60 Photometry Comets Pseudulum
- H. 37 July 4 " " Sept 22 " Photometry Comets. Mars -
- H. 38. Sept. 26. 60 Jan. 30/61 Pseudulum Epts Ring Micrometer Telania
- H. 39 Jan. 31. to April 8. 61 Melpomene Mnemosyne Laetitia Orion
- H. 40 Apr 9. 61 " May 2/61 Comet
- H. 41 May 3/61 " June 22/61 Planet / 66
- H. 42 June 22/61 to July 13/61 Comet
- H. 43 July 13/61 to Sept. 12/61 Comet
- H. 44 Sept. 16 " " Dec 30. 61 Comet. 2/61 & Encke's Comet
- H. 45 Jan. 1. 62 Apr 18. 62 Comet. Asteroids Orion
- H. 46 Apr 19/62 to July 5 62 Asteroids
- H. 47 July 6/62 Aug. 19/62. Comets
- H. 48. Aug. 19/62 to Dec. 2. 62. Comet & Asteroids
- H. 49 Dec 6/62 Apr. 9. 63 Orion
- H. 50. April. 13 63. to June 4. 63 Saturn (Micrometer measures of)
- H. 51 June 10/63 to Oct. 1. 63 Saturn Satellites Asteroids
- H. 52. Oct. 5/63 to Feb. 19/64. Orion
- H. 53. Feb. 19/64 to Feb 21/64. Orion & Saturn Satellites
- H. 54 Feb 21/64 to June 1/64 - Orion - Instrumental Errors
- H. 55. June 1/64 to Feb 27/65 Asteroids
- H. 56. 1865 April. 3 - Asteroids
- H. Sundry Observations in 59 & 60
No others

H

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Note July 30, 1877.

This book contains some account of the contents of various record books, many of which belong to one or another of the series which were made up and lettered A, F, and H, at some time before 1868; others belong apparently to none of the various series distinguished by letters, and are very likely at present boxed up in the cellar; at all events they cannot be discovered today.

The plan pursued in keeping the records about thirty years ago seems to have been to continue the paging of one so-called "volume" through several books. The volumes the contents of which are given on pp. 7 to 50 inclusive of this book are volumes of this kind, each made up of several separately bound books. On pp. 1 and 2 are accounts of the books which had been placed in series H at the time when these accounts were written.

The equatorial observations described on pp. 7 to 31 inclusive may be wholly contained in the present series H; but H 1 to 7 inclusive are missing today. They were here in 1868, however, and probably will or can be found*. H 8 begins with p. 93 of what is called Vol. II on pp. 18 to 26 inclusive of this book. H 10 and subsequent books of series H (there is no H 9) continue the Vols. II, III and IV named in pp. 18 to 31 inclusive of this book. The memoranda on pp. 1 and 2 give additional information about series H.

The transit observations described in pp. 41 to 50 inclusive of this book are partly contained in series F. "Vol. I," pp. 1 to 20 inclusive, are in F 7; pp. 90 to 349 in F 3, 4, and 5; pp. 443 to 629 in A 1 and 2. "Vol. II" begins with A 3 and ends with A 8; "Vol. III" begins with A 9 and ends with A 14; "Vol. IV" begins with A 15 and ends with A 18.

On p. 3 of this book there is an account of the contents of some book probably now boxed up in the cellar.

* Sept. 7, 1878. Books H 1 to 7 found today. They seem to belong to what is called in this book Vol. I of the equatorial observations, and to Vol. II pp. 1-92.

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a

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Volume I Equatorial.

(See p. 5 of this book)

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133

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" " "

137

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" " Place of

158

" " "

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" " "

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164

" " "

165-68

" " "

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" Biela's looking for

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" " Found?

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Saturn

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181

" " "

182

" " "

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Old Observatory.

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" 56

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Wire intervals.

Variation of Magnetic Needle.

Note. - Signal record of Spring Gov.

Zero Stars for Catalogue

Wire Intervals.

Wire Intervals.

West Transit

Wire Intervals.

Catalogue Stars

" "

" "

" "

" "

Observations for difference of Longitude between
Kings College N. B. and Harvard College Observatories

Catalogue Stars

Equatorial 1847

Nebula $\alpha \times a$ *Line of Position* $271^{\circ} 30'$
 $275^{\circ} 27'$ *Top moved to right*
 $275^{\circ} 35'$

Dist ~~88.28~~

91.00	73.38
<u>52.16</u>	<u>36.67</u>
38.84	36.71

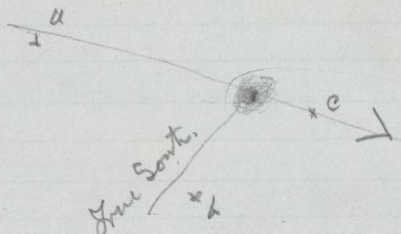
75.95

39.14

36.81

Star & nucleus

$\times b$	201.30	50.18	46.93
	200.50	<u>26.98</u>	<u>23.70</u>
		23.20	23.23



Star & nucleus

281.05	95.27	73.24
281.35	<u>22.18</u>	<u>20.43</u>
	13.09	12.81

at times the central point is
 scarcely visible from clouds. I think

Polaris observed for the values of revolution of the
micrometer screw of the Great Equatorial.
Sept 17th Dec. 1847

Zero of angle of position $270^{\circ} 45'$

9 "26" 22.3
26 48.4

Whole Revolution scale is on the right hand
Micrometer Head is below
Commence at Zero of Micrometer Head & at ^{middle 59} ~~Zero~~ of the
scale — moving 1 revolution & towards 10.

9 "29" 51.8

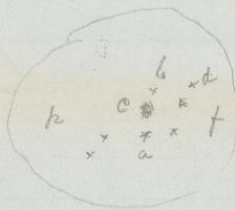
Temperature 61.5

2557 9 "33" 28.2

	51.7	23.5	
34 "	15.5	23.8	
	39.9	24.4	18.6
35 "	06.8	26.9	<u>24.6</u>
	30.3	23.5	
	55.6	25.3	
36 "	22.0	26.4	19.9
	46.7	24.7	<u>25.0</u>
37 "	10.0	23.3	
	37.4	27.4	
38 "	00.9	23.5	18.7
	25.4	24.5	<u>24.7</u>
	52.0	26.6	
39 "	17.4	25.4	
	40.8	23.4	20.1
40 "	05.5	24.7	<u>25.0</u>
	29.5	24.0	
	54.7	25.2	
41 "	19.7	25.0	0
	45.5	25.8	<u>25.0</u>
42 "	09.5	24.0	
	34.5	25.0	
42 "	59.5	25.0	18.5
43 "	24.0	24.5	<u>24.6</u>
44 "	49.5	25.0	

sep. 15. 1847. sa
planetary nebula

R. $20^h 15^m 15^s$
Dec. $19^\circ 35'.0$ N



a is the brightest
in the nebula and
a & b are nearly
in the same R.
and a faint star.



F is greenish

it is a glimpse star
of seen when the eye
power A. is not directed to it.

x seen distinctly with a high power
y that seen with power B and an
apparent star point near the
centre of nebula.

g is distinctly visible with power C.D.F.
2 w t visible with the same powers.
with power 7 over the nebula
looks very much as if it were
resolvable. therefore can
evidence pairs of undecid. light
star at the centre of nebula
with the power of C and higher

Neptune

Sept 16 1849.

Saturn's satellites. Diameter of Saturn 2.01
 2^h 2^m. satellite a to b = 5.50

See Axis preceding M.C. Head at left.

Measures of Neptune & supposed satellite

J.C. Walker scribe

Mr Bond says found that the Position reading of the ~~6~~ ⁵ and
 the supposed satellite say * was $353^{\circ} \pm 16$ Mr Bond then turned the
 film micrometer so as to read 83° for measuring distances

424 Arnold	FF Centre	*	Position	Observer	Distance	Power	Final of clear field Final of Coincidence Bond	Bond
22 56 0	29.25	29.75	unmarked					
23 01 00	42.98	29.75	83°	Bond Sen	12.22	No 2	30.340	30.335
23 15 50	43.95	30.34	"	"	13.61	"	30.840	30.845
23 32 00	29.865	~~29.865~~	"	Pierce			30.805	30.875
23 33 0	29.365		"	"			No dead Point.	
23 43 20	42.625	29.35	"	"	13.270		{ diameter = 0.500	
23 47 7	43.225	"	"	"	13.870			
0 6 0			349 30	"	0.000	Good measure		
0 7 30			350 0	"	0.000	"		
0 15 0			$270^{\circ} 40'$	"				
0 20 0			$270^{\circ} 45'$	"				
			$90^{\circ} 34' 5 \pm$					

* mm well on wire find correction - $40'$
 Walker's mean = $\begin{cases} 200 & 35' \\ 90 & 35' \end{cases}$ - $45'$

Use degrees of declination

0 28 0	12.204	25.123 direct
35	12.103	.071 reverse
38	12.000	.129 direct
42	12.348	.107 reverse
1 3		

Walker

Position $\begin{matrix} 270 & 35' \\ 270 & 36' \\ 90 & 33' \end{matrix}$ II

Sept. 17 1847

Nep time and altitudes.

20^h.40^mSept. 21-22nd Oct. 1847 3^h.45

Looked at the Nebula in Orion alt. 30° Saw the six
 stars of the trapezium with a power of 400 also saw with 180 the region
 round the trapezium

By. of Nebula The appearance is much mottled, it has lost all its
 smooth even surface

3^h.45.30 3^h.45.37 by.
 3^h.45.47
 3.46.43 center
 3.47.26
 34

Sept. 23rd. 21^h 33^m 52^s
 11 30 16
 22 3 30

W.C.B. Obs. YPA Rec.

9 " 44.13.0 23.5
 4 38.7 25.7 20.5
 45.05.0 26.3 25.1

Moved to scale reading 77

9" 52.39.0 8
 53 03.7 24.7
 29.0 25.3
 53.7 24.7 19.7
 54 18.7 25.0 24.9
 3 44.4 25.7
 55 08.8 24.4
 32.0 23.2 19.1
 57.8 25.8 24.8
 56 22.0 24.2
 46.8 24.8
 57 12.4 25.6 19.5
 37.3 24.9 24.9
 58" 02.3 25.0
 26.8 24.5
 51.0 24.2 20.5
 59" 17.8 26.8 25.1
 40.0 22.2

249 = 239.620
 15 0.17609
 2.57229
8.42935
 0.99164 = 9.81 = 1 rev

10 " 00" 07.0 27.0 Star getting very
 00 32.0 25.0 *unsteady*
 56.7 24.7 24.8
 01 " 20.0 23.3
 45.7 25.7
 02 09.5 23.8 19.3
 " 36.0 26.5 24.8
 03 " 00.6 24.6
 26.5 25.9 25.0
 10 03 51.0 24.5 Coincidence at 50.

24.6 24.880 = 1.39555
 25.0 *mc* 28.29.43 1.58065
 24.7 9.81520
 25.0 15 1.17609
 25.0 0.99129 = 9.801 = 10 - 0.2
 24.6 24.82
 25.1 24.86
 24.9

24.8 14/183 (24.880 = Time Polaris takes to transit 1 rev. Mean of 55 passages
 24.9 56

25.1 123
 24.8 112
24.9
 25.0 170

Nucleus $\times$ d m. f.

197.0
196.90

73.15
28.17

73.25
28.17

Equatorial 1847.

