



Smithsonian Institution

Harvard-Smithsonian Center for Astrophysics

Project PHaEDRA - Henrietta Swan Leavitt #12

Extracted on Sep-06-2022 02:41:59

The Smithsonian Institution thanks all digital volunteers that transcribed and reviewed this material. Your work enriches Smithsonian collections, making them available to anyone with an interest in using them.

The Smithsonian Institution (the "Smithsonian") provides the content on this website (transcription.si.edu), other Smithsonian websites, and third-party sites on which it maintains a presence ("SI Websites") in support of its mission for the "increase and diffusion of knowledge." The Smithsonian invites visitors to use its online content for personal, educational and other non-commercial purposes. By using this website, you accept and agree to abide by the [following terms](#).

- If sharing the material in personal and educational contexts, please cite the Harvard-Smithsonian Center for Astrophysics as source of the content and the project title as provided at the top of the document. Include the accession number or collection name; when possible, link to the Harvard-Smithsonian Center for Astrophysics website.
- If you wish to use this material in a for-profit publication, exhibition, or online project, please contact Harvard-Smithsonian Center for Astrophysics or transcribe@si.edu

For more information on this project and related material, contact the Harvard-Smithsonian Center for Astrophysics. [See this project](#) and other collections in the Smithsonian Transcription Center.

[[front cover of a linen bound notebook]]

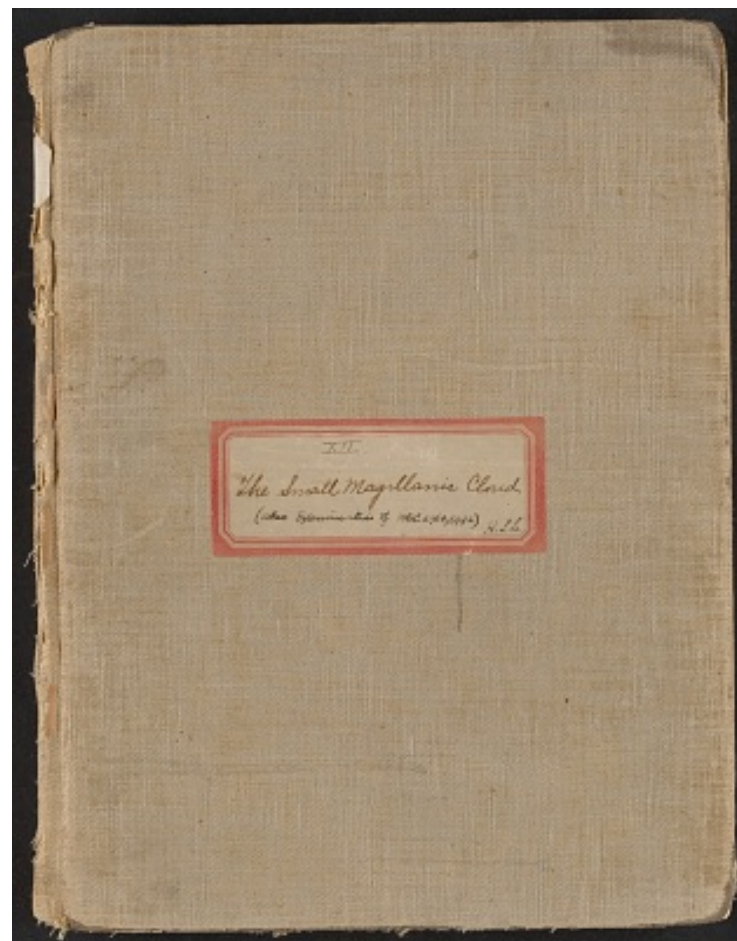
[[red outlined paper sticker label]]

XII

The Small Magellanic Cloud,
(also Examination of NGC 6960,6992)

H.S.L.

[[/red outline paper sticker label]]



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[inside front cover of notebook]]
[[blank page]]

[[end page]]
[[start page]]

[[preprinted]]1[[/preprinted]]

Contents of Book XII HSL
[[two column table]]

Page
Cygnus. Region near NGC 6960 and 6992 Examination for
Variables| 4-8
The Small Magellanic Cloud
Remark on light scale| 9
Nos 456-463 (marked on A 6985)| 10
Nos 256, 257| 10
Nos 464-558 (marked on A 6988)| 11-19
No. 221 with chart| 18
Nos 559-629 (marked on A 6913)| 20-25
Nos. 630-700 (marked on A6990| 26-39
No. 83| 26
Nos 126-417| 30
No. 273| 33
No. 463| 3
Comparison of Plates of different Exposures| 40-42
Nos 800-828 (marked on A 698[^][[0]] ~~4~~[[/del]])| 43-45
Nos. 829-840 (marked on A 6982)| 46-47
Nos.841-892 (marked on A 6986)| 48-52
No. 893; Examination of Bache Plates| 53
No. 71| 16
No. 82| 62
Nos 894-933 (marked on A 3393)| 54-58
Nos 934-967| 59-61
Nos 968-9, 59, 61, 82, 89, 127| 62
Suspected Variables re-examined| 63-66
Estimates of Number of Stars| 67-69
New Clusters| 70-88
Remarks on new clusters and Variables| 89, 90, 92, 101
N.G.C. [[ditto for clusters]] Nebulae| 103, 104

Contents of Book XII HSL	
	Page
Cygnus. Region near NGC 6960 and 6992	4-8
The Small Magellanic Cloud	9
Nos 456-463 (marked on A 6985)	10
Nos 256, 257	10
Nos 464-558 (marked on A 6988)	11-19
No. 221 with chart	18
Nos 559-629 (marked on A 6913)	20-25
Nos. 630-700 (marked on A 6990)	26-39
No. 83	26
Nos 126-417	30
No. 273	33
No. 463	3
Comparison of Plates of different Exposures	40-42
Nos 800-828 (marked on A 698 [^] [[0]] 4 [[/del]])	43-45
Nos 829-840 (marked on A 6982)	46-47
Nos.841-892 (marked on A 6986)	48-52
No. 893, Examination of Bache Plates	53
No. 71	16
No. 82	62
Nos 894-933 (marked on A 3393)	54-58
Nos 934-967	59-61
Nos 968-9, 59, 61, 82, 89, 127	62
Suspected Variables re-examined	63-66
Estimates of Number of Stars	67-69
New Clusters	70-88
Remarks on new clusters and Variables	89, 90, 92, 101
N.G.C. [[ditto for clusters]] Nebulae	103, 104

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]2[[/preprinted]]

Contents

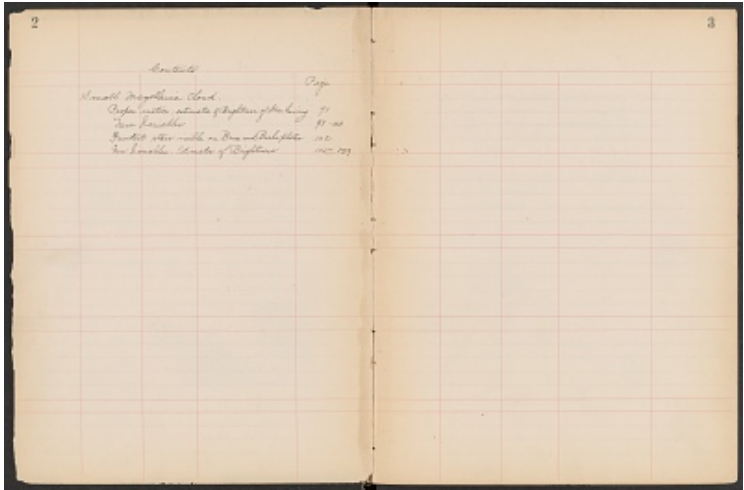
[[2 column table]]

[[item]] | Page
Small Magellanic Cloud |
Proper motion, estimates of Brightness of Star. having | 91
New Variables | 93-100
Faintest stars visible on Bruce and Bache plates | 102
New Variables. Estimates of Brightness | 106-129

[[end page]]
[[start page]]

[[preprinted]]3[[/preprinted]]

[[no entries]]



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]4[[/preprinted]]

[[underlined]] January 25, 1905 [[/underlined]]

Nebulae NGC 6960 and 6992 in Cygnus

Plate D 11053= A 6911 Sept. 2, 1904 Exp. 240[[m?]]
superposed with
A 6915 [[beta?]] Sept. 7, 1904 Exp. 240m
1 variable
1 susp. var
29 defects

[[end page
[[start page]]

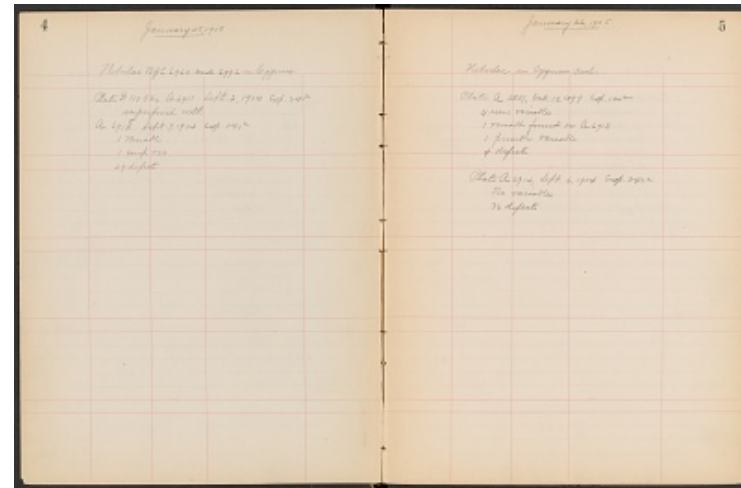
[[preprinted]]5[[/preprinted]]

January 26, 1905

Nebulae in Cygnus Cont.

Plate A 2837, Oct. 19, 1897 Exp. 120[[m?]]
4 new variables
1 variable found on A 6913
1 possible variable
4 defects

Plate a 6914, Sept. 6, 1904 Exp. 240m
No variables
36 defects



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]6[[/preprinted]]

[[underlined]] January 27, 1905 [[/underlined]]

Nebulae in Cygnus Cont.

Plate D 11054= A6911

superposed with

Plate A 6915

One variable discovered on this plate previously

Three new variables

Six suspected variables

This position is much better in every way, than D11053, The latter is not only too light in color, but is full of defects which can scarcely be distinguished from star images.

[[end page]]

[[start page]]

[[preprinted]]7[[/preprinted]]

[[underlined]]January 28, 1905[[/underlined]]

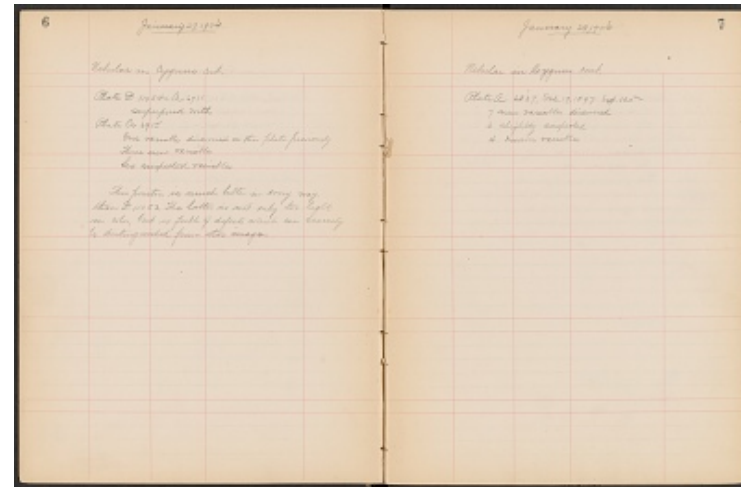
Nebulae in Cygnus cont.

Plate A 2837, Oct. 19, 1897. Exp 120 [[super script m]]

7 new variables discovered

3 slightly suspected

4 Known variables



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]8[[/preprinted]]

[[underlined]] January 27, 1905 [[/underlined]]

Nebulae in Cygnus - cont.

Plate A 6914, Sept. 6, 1904 Exp. 240 m

No new variables

Nos. 1, 3, 4, 13 found

Plate A 2832, Oct 15, 1897, Exp 61 ^m

No new variables

Nos. 7, 8, 10, 11, 13, 14, 15 found

[[end page]]

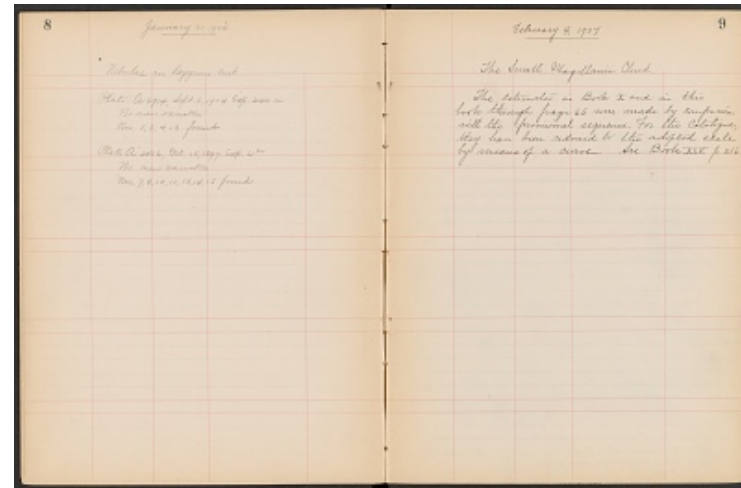
[[start page]]

[[preprinted]]9[[/preprinted]]

[[underlined]] February 4, 1907 [[/underlined]]

The Small Magellanic Cloud.

The estimates in Book X and in this book through page 66 were made by comparison with the provisional sequence. For the Catalogue, they have been reduced to the adopted scale by means of a curve. See Book XIV p. 216



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]10[[/preprinted]]

[[underlined]] February 15, 1905 [[/underlined]]

The Small Magellanic Cloud - Cont. from Bk X p. [[?220]]

[[three columns]]

Var|Bright|Faint|

456|6985 [14.2] 6981|3393 6980 [14.9] 6983 6982 6986 6988 6989|

457|3393 6983 [14.0] 6982 ~~[[6988]]~~

Found while observing no. 456

458|6985 [11.5] 6989 6988 6986 6992|3393 6982 [6983 6980]

|B24467 [11.5] 26549 [11.3]|B10292 [12.3] B10367 [12.6] 10256

10362 10264|

459|3393 6988 6986 [13.5] (6980) 6992 [13.1]|(6985) 6982 [13.8]|

Well seen 460|6985 [14.3] 6984 6981|3393 6980 [14.8] (6983) (6986)

6987 6988 (6989)|

X 461| 3393 6985 [14.1] 6988 (6982) 6981 6860 ~~[[?3326]]~~|6989 6986

(6983) (6980) (6992) ~~[[6860]]~~ ^[[6913]]

[14.7]|

Found while observing no.460. Probably real. Do not announce.

462|3393 6983 (69892) 6988 [14.0] 6981| 6985 [14.6] (6982) 6980

6986|

463| 6985 [14.0] (6982) (6983)|3393 6988 [14.8] 6981 6987 6986 (6980)

(6992)|

256 ~~[[464]]~~|3393 6983 [14.1] 6986

6987|6985 [15.0] 6992 (6980) (6982) 6988|

257| 3393 6983 [14.0] 6982 (6987) (6986) 6860|6985 [14.3] 6992 6980

6986 6981 6913 [14.7]|

On this plate ^[[A6985]] were marked the following variables, while superposed on plate D 7092, Nos. 369-463 excepting nos.449, 457, 461 which were found while observing neighboring variables. The following ^[[?84]] variables were also found: - 8, 9, 12, 13, 14, 18, 19, 21, 22, 29, 30, 34, 35, 36, 38, 37, 43 50, 51, 52, 55, 59, 69, 76

72, 80, 86, 95, 98, 44, 48, ~~[[81]]~~, 128,

122, 129, 136, 137, 145, 146, 149, 139, 160,

163, 167, 168, 173, 176, 181, 182, 183, 184, 189, 190, 194, 198, 196,

216, 223,

231, 237, 238, 257, 264, 256, 267, 269, 280, 281 287; 314, 310, 321,

328,

330, 331, 332, 349, 351, 358, 361, 363,

~~[[372]]~~, 376, 378, ~~[[369]]~~,

397, 398, 399~~[[beeb]]~~

[[above looks to be in pencil, the following in ink]]

Also nos. 6 and 12 in N.G.C. 362

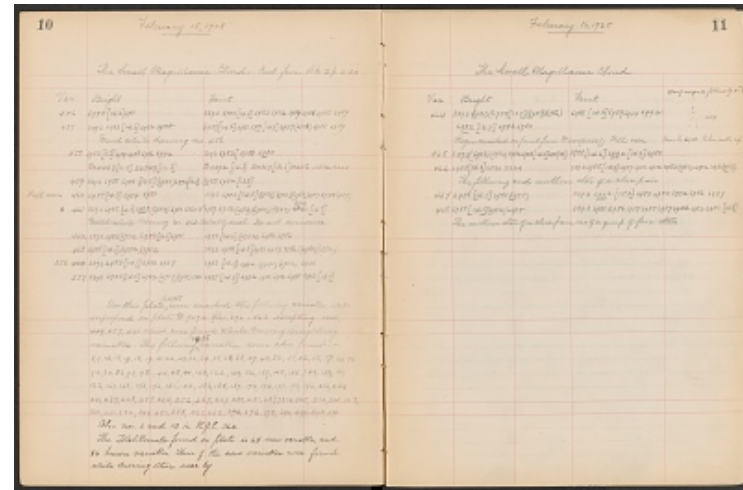
The Total Number found on plate is 68 new variables, and 86 known variables. Three of the new variables were found while observing others near by

[[end page]]

[[start page]]

[[preprinted]]11[[/preprinted]]

[[underlined]] February 16, 1905 [[/underlined]]



The Small Magellanic Cloud

[[four columns]]

Var|Bright|Faint|Star of magn 16 follows by [[?0.^[""]3]]|

464|3393(6981) (6985) [13.9] (6987)(6986)|6988 [14.2] 69899 6913

6992|[[image: appears to be an array of stars [dots] with one are labeled
"464""]]

|6982 [13.7] 6983 6980| | |

|Region marked on print from D3185 (B10367) Well seen| from A

6988.; Film side up.|

465|3393 (6983) (6982) 6986 6985[14.0] 6981 [13.8]|6988[14.6]

6988[14.6] 6992 [14.9] 6980| |

466|6988 [14.3] 6860 3326|3393 6985 [14.9] 6987 6982 (6980) 6992

6981 (6913)| |

|The following and northern star of a close pair| | |

467|6988 [14.3] 6981 (6985)|3393 [[underlined]]6992[[/underlined]]

[15.2] 6980 6983 6982 6986 6987|

468| 6988 [14.1] (6982) 6981 6985|3393 6981 6986 6987 6985 6989

[[strikethrough]]6982[[/strikethrough]] 6983 6980 [14.8]|

|The northern star of a close pair, one of a group of five stars| |

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]12[[/preprinted]]

[[underlined]] February 17, 1905 [[/underlined]]

The Small Magellanic Cloud

[[three columns]]

Var|Bright|Faint|

469|6988 [14.2] (6980)(6982)(6983) 6985 6981|3393

[[striketrough]](6992)[/striketrough]] 3326 [14.8] 2183|

|6986 6987 6860 6913|

|The fluctuations in recent plates are slight if they exist.|

|The faintness in early plates unmistakable. Has the brightness|

|increased, or is it a variabl star of long period|

470|3393 6981 [13.6] (6985) 6982|6988 [14.3] 6986 6987|

x 471|6988 [14.2] 6987 (6989)(6982) 6980 (6981)|3393 6985 [14.6]
(6983) 6860|

| (6913) 3326|Variation small, but well seen [/?occurrence]?|

472|6988 [14.3] (6982) 6985|3393 6992 [15.0] 6980 6983 6989 6986
6981|

473|6988 [14.2] 6986 (6981) 6985 6982 6980|3393

[[underlined]]3326[[/underlined]] [14.9]|

|6992 6860 [[partial double underline]]6913[[/partial double underline]]
[14.0] 2183|

|Period [/?long]? On all recent plates [/?above]] little if any change|

474|6988 [14.0] (6985)|3393 6992 [15.0] 6981 6980 (6983) (6982) 6989
6986|

x475|3393 [14.8]|6988 [n.s <15.2] 6986 6981 3326 2183 2187 6860
6913|

|Not seen on any plate except A399^[[3]]|

[[striketrough]]2[[/striketrough]], on which it is a [/?clear]]

|image. Not looking like a defect. Do not announce.|

|The figure 18 nearly covers the position on enlargement|

476|6988 [14.5] (6981)|3393 [[striketrough]]6981[[/striketrough]] 6982
6980 <15.1] 6982 6983 6985 6986 6860|

|Hidden by figure 133. Masked on print from D7092|

477|6988 [14.6] 6982 [[striketrough]]3393[[/striketrough]] 6992
[14.4]|3393 6981 [15.0] 6986 6989 6983 6980|

[[end page]]

[[start page]]

[[preprinted]]13[[/preprinted]]

[[underlined]] February 18, 1905 [[/underlined]]

The Small Magellanic Cloud

[[three columns]]

Var|Bright|Faint|

478|6988 [14.3^[[?]]] 6992 (6982) 6985|3393 (6980) 6983 6987 6860
[14.9] 3326 [15.0]|

| (6981)|

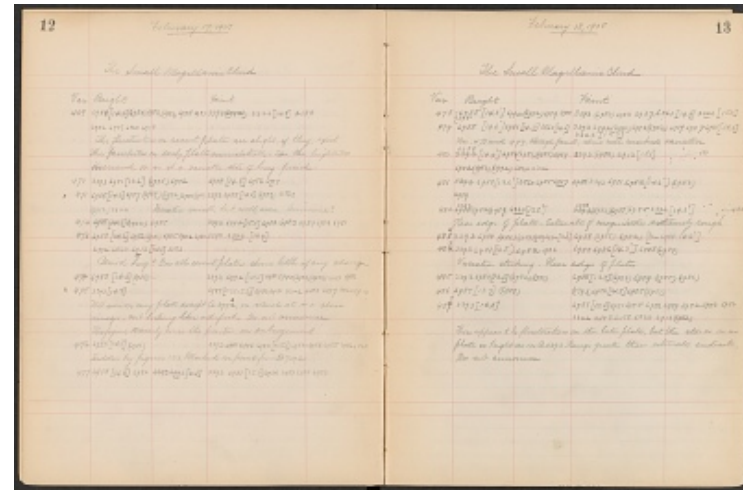
479|6988 [14.6^[[?]]] 6981 [14.7] 6860 [14.6]|3393 6992 (6980) 6983
(6982) 6989 6987 6985 [15.0]|


| | 3326 [15.1]|

Nos. 478 and 3479, though faint, [/?show]] well, marked variation

480|[[sriketrough]]3393[[/striketrough]]^6988]] [14.4^[[?]]] 6986

(6981)(6985) 6989|3393 (6980) 6913 [15.1] [[image: array of eight or ten



dots (stars?) with an arrow label "480"]]
 | 6982 (6983)(6992) 6860 3326 | |
 481|~~3393~~ 6988 [13.6^[?]] 6860 6985
 6987|~~6988~~ 3393 6981 6982 [14.6^[?]]
 (6983)|
 | 6989 | |
 4892|~~6988~~^[3393] (6982)(6989)
 [13.5^[?]]|~~3393~~ ^[6988] (6983)(6087)
 6085 3326 [14.3] 
 |Near edge of plates - Estimates of magnitudes extremely rough.
 48|~~3~~^[4] 3393 6981 (6986) (6989)
 (6980) 6992 [13.2^[?]]|6988((6986)6985) 6982 [On 6988
 14.2^[?]][14.3^[?]]
 48|~~64~~^[3] 3393 6981 [12.8^[?]] 6982
 6983|6988 6986 [14.3^[?]] 6985 (6989)|
 Variation striking. Near edge of plates
 485|3393 6980| [13.0] (6982) (6981)|6988 [13.8] (6983) 6989 (6985)
 (6986)|
 486|6988 [13.7] (6988)|(3393) 6986 [14.8] 6985 (6981)|
 48|~~7~~^[7] 3393 [14.8]|6988 [15.0] 6981
 6985 6986 6989 6982 6983 6980|
 | | 3326 2183 21886860 6913 (~~6982~~)
 There appear to be fluctuations on the later plates, but the star is on
 no plate so bright as on A 3393. Range greater than estimates indicate.
 Do not announce

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]] 18 [[/preprinted]]

((Handwritten entries in pencil))

February 28, 1905 ((underlined))

The Small Magellanic Cloud
Var Bright Faint

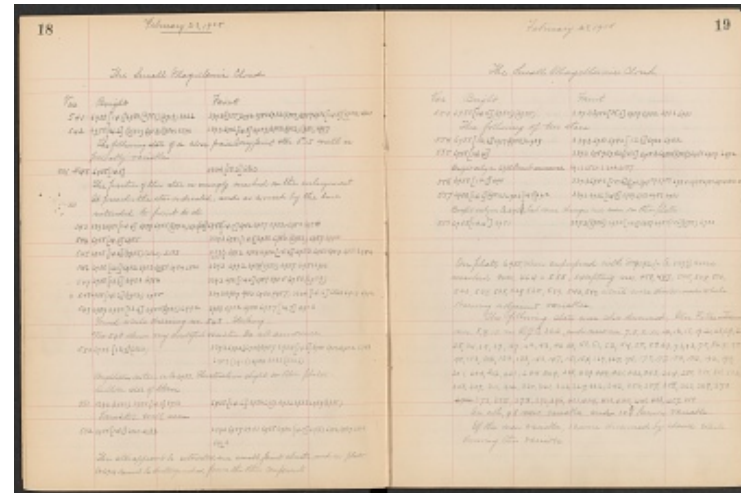
- 541 6988[14.1]6980(6981)(6913)3326
3393(6988)699269836982(6989)69876986[14.3](6984)6860
542 6988[14.2](6980)(6913)(6984)3326 ((underlined))
33936986[14.8](669896982(6983)(6981)6987 ((underlined))
The following star of a close pair A very faint star 1.15 ((m))indicated
above entry))north is probably variable
221 543 (strike-through) 6988[14.0]
The position of this star wrongly marked on the
enlargement. It precedes the star indicated, and is covered by the line
intended to point to it. ((221 indicated again to the side of the text entry))
543 33936981[14.4]69896985(6992)6913[13.8]
6988[14.7]69866987698269836980
544 6988[14.3]6985
33936981[14.9]69866980(6983)69896992
545 6988[14.2](6985)(6860)2183
3393699269896982[15.0]6983698069876987698
^[[x]]6913
546 6988[14.1]69826983[underlined]6985[underlined]69846860
339369926989(6980)698769816913
547 6988[13.6]69836982
33936981[14.6]698769856980(6989)
^[[x]]548 6988[14.2](6982)6985
3393698969836980(6987)3326[14.6]686069136992
549 69896980[13.6]6985(6981)6992
6988698269836987[14.7]6913
Found while observing no. 548. Striking.
^[[x]] No 548 shows very doubtful variation. Do not announce.
550 6988[13.7](6860)
33936992(6981)69876985[14.6]6980698369826989

- 6989(6913)69842183(3326)
Brightness certain on A6988. Fluctuations slight on other plate.
Southern star of three.
551 3393(6980)6985[14.2]6913
6988[14.6]6986((underlined))6989((underlined))698269836987(6981)
Variation will sum
552 6988[14.1]6860((underlined))2183((underlined))
33936987698169856980[14.7]6983698269896786

((underlined))6913((underlined))
This star appears to be situated in a small, faint cluster, and on
plate
A6913 cannot be distinguished from the other components.

[[start page]]
[[end page]]

[[preprinted]] 19 [[/preprinted]]



((Handwritten entries in pencil))

February 23, 1905

The Small Magellanic Cloud

Var Bright Faint

553 6988[14.2](6980)(6985)
33936986[15.0]6989698269836981

The following of two stars

554 6988[12.6]6987(6985)6989
339369816980[13.6]69836982

555 6988[14.4]
339369896982[15.0]69836980(6985)698169876992

Bright only on 6988. Do not announce

6913686033262187

556 6988[14.5][[scratched out]]698[[scratched out]]
33936986[15.2](6982)69896980698369856981691368603326

557 6988[14.6](6982)6983[14.3]6913

33936986[14.9]6989698069856981

Bright only on A698[[scratched out]]8[[scratched out]]3, but some changes are seen on other stars.

558 6988[14.4 ^[[?]]]6981

3393(6986)6982[14.9]69896980[15.0](6985)6983

On star 6988, when superposed with D4092 (= A3393) were marked nos. 464-558, excepting nos. 489, ((underline))497((underline)), 505, 507, 510, 526, 527, 528, 529, 535, 539, 540, 549, which were discerned while observing adjacent variables.

The following stars were also discovered: Mrs. F's Var-[[?]], nos. 8, 9, 10 in NgC 362, and new nos. 7, 8, 9, 10, 12, 13, 18, 19, 21, 28, 29, 23, 25, 34, 35, 39, 37, 42, 43, 46, 38, 50, 51, 52, 54, 55, 58, 69, 71, 73, 75, 86, 91, 95, 98, 103, 102, 122, 133, 143, 147, 151, 154, 169, 167, 171, 173, 177, 182, 183, 192, 199, 201, 204, 216, 221, 224, 209, 238, 239, 249, 261, 262, 263, 264, 280, 300, 301, 302, 308, 309, 311, 312, 320, 321, 326, 327, 336, 343, 356, 357, 358, 363, 368, 370, [[scratched out]] 372, [[scratched out]] 373, 385, 378, 390, 396, 401, 404, 413, 420, 441, 453, 457, 458

In all, 95 new variables and 102[[scratched out 3]] known variables.

Of the new variables, 13 more discovered by chance while observing other variables.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]20[[/preprinted]]

[[underlined]]February 24, 1905[[/underlined]]

The Small Magellanic Cloud.
Plato D 11158 = D 6984
Superposed with A 6913

Var | Bright | Faint
559 | 6984 6985[13.7](6983) | 6913[14.9](6980)6989

[[end page]]
[[start page]]

[[underlined]]February 25, 1905[[/underlined]]

[[preprinted]]21[[/preprinted]]

The Small Magellanic Cloud.

Var | Bright | Faint
560 | 6984 6982[12.9](6986) | 6913[13.7]6989 6988
561 | 6913[14.2](6987) | 6984 6982
6988[14.5][6986][14.7]6981(6983)6985[6980][14.8]

Variation well seen | 6860[6989][3393 3326

562 | 6984 (6860) 6980 [13.9] 6985
[13.7][6983] |
6913[14.1]6986[14.1][6988][14.3][6989]
6981 6982[13.6] |

The preceding star of a very close pair

563 | 6913[13.6]6989(6986)(6987)(6983)(6980) | 6984
6982[14.1](6988)6985

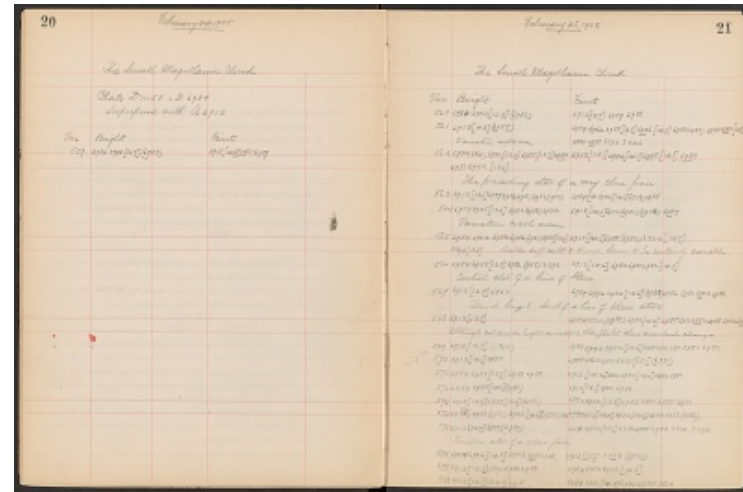
564 | 6984 6985[13.6]6983(6989)6982 |
6913[14.0]6980(6981)(6988)[6989]

Variation well seen

565 | 6984 6992 6982 6986(6981)6985[13.9] |
6913[14.1]6988(6983)3326[14.5]
| 3393[13.8] Rather difficult to observ. Seems to be certainly variable.

566 | 6984 6985[13.8]6986(6988)3393 | 6913[14.2]6980 6981
6982[14.3]
Central star of a line of three

567 | 6913[13.5]6860 | 6984 6992 6982[14.6](6988)69866



98169836980
Period long? South of a line of three stars

568 | 6913[13.5] | 6984(6860)(6980)6983[14.4]6985
698169866988
69826992
Although not seen as bright as on 6913, other plates show marked changes

569 | 6913[12.7](6860) | 6984 6992 6982[13.6]6988 6986 9816 6983
6980

570 | 6913 [14.1] 6980 | 6984 6860 6983 6985 [15.1] (6981)

571 | 6984 6985 [13.7] 6986 6988 | 6913 [14.2] 6860 6980 [14.4] 6983
6981
572 | 6984 6985 [14.6](6986) | 6913 [15.1] 6980 6986
573 | 6913 [13.5]6988[13.3](6986) | 69546982 [13.8] 6983 6981 6985
6986
574 | 6984 [6988 (6981)6985[14.1](6980)3393 | 6913 [14.4] 6982 [14.6]
6983 | 6988 (6986)
575 | 6913 [14.2](6988)(6981) | 6984 6980 [15.1] 69 866985 6983 |
3326 3393
Northern star of a close pair
576 6984 6982 [14.5] 6983 [6981] 6988 577
6913 [13.6] 3393 6980 6988 579 6913 [14.1] (3393) 6988

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]22[[/preprinted]]

[[underlined]]February 27, 1905[[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

579 | 6913 [13.2] (6982) | 3326 2187 | 6984 (6992) (6988) 6986 [13.8] 6980
| 6985 6983 6982 3393 6860

580 | 6913 [14.1] 6982 6981 | [13.8] 6986

581 | 6984 6985 [14.0] 6981 | 3326 | 6913 [14.3] 6988 [[underlined]]

6986 [[/underlined]] [14.5] [[underlined]] 6980 [[/underlined]]
[[underlined]] 6983 [[/underlined]] 6982 6860

| Variation small, but well seen.

x 582 | 6984 3393 6982 6985 [13.8] 6980 6988 | 6913 [14.1] (6860)
6981 (6986)

| Probably the southern of a group of three stars, which it sometimes
equals and sometimes exceeds in brightness. Do not announce.

583 | 6913 [13.5] 6986 | 6984 6988 6980 [14.7]

584 6984 (6986) [[underlined]] 6985 [[/underlined]] [12.5] 6983 (6987)

[[underlined]] 6982 [[/underlined]] 6913 [13.6] 6980

585 | 6913 [12.0] ^ [[2]] | (6982) (6981) | 6984

586 | 6913 [13.5] 6982 6981 (6983) 6986 ^ [[0]] | 6984 [6985 [14.1] 6986

587 | 6913 [13.8] (6980) [[underlined]] 6983 [[/underlined]] | 6984 6986
[14.8]

588 | 6913 [13.8] 6983 6992 | 6984 6981 [15.0] 6985

| The northern star of a [[?]]

589 | 6913 [13.6] 6980 [13.5] 6986 6988 (6951) | 6984 6992 6985 [14.4]
6983

590 | 6984 6992 6985 [14.6] 6980 (6981) | 6913 [15.0] (6986) (6988)
(6983) 6982

| Variation small

591 | 6984 6986 6980 [13.6] 6985 | 6913 [13.7] 6982 6981 [[underlined]]
6985 [[/underlined]] [14.1] 3393 (6992)

| Variation small, but well seen

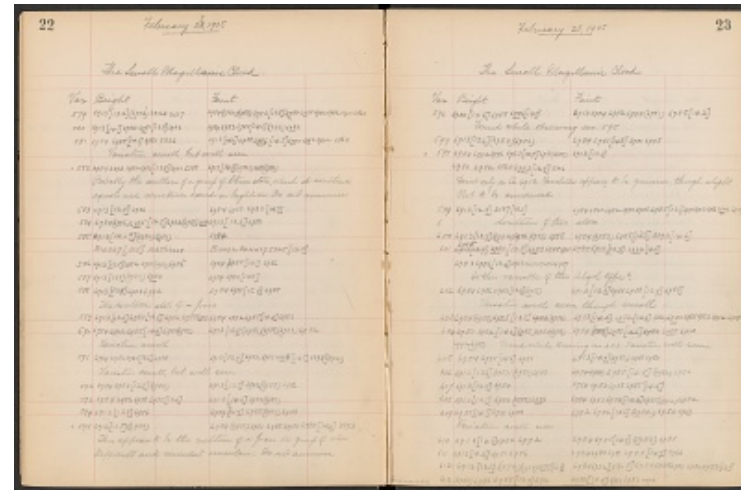
592 | 6984 6985 [12.8] (6980) | 6913 [13.5] 6992 (6988) 6986

593 | 6984 6986 6988 6985 [13.6] | 6913 [14.6] 6983 (6980)

594 | 6913 [13.8] 6986 | 6984 [14.9] 6985 (6980) 6988

x 595 | 6913 [13.5] (6986) | 6984 (6981) 6983 6988 6980 6985 [14.4]
3393

| This appears to be the northern of a pair or group of stars. Difficult and
somewhat uncertain. Do not announce



[[End Page]]
[[Start Page]]

[[underlined]] February 28, 1905 [[/underlined]] [[preprinted]] 23
[[/preprinted]]

| The Small Magellanic Cloud

Var | Bright | Faint

596 | 6980 [13.5] 6988 [[underlined]] 6986 [[/underlined]] [13.5] | 6913
6984 6982 6953 (6981) 6985 [14.2]

| Found while observing no. 595

597 | 6913 [13.6] (6983) (6986) | 6984 6985 [14.8] 6981 6988
x 598 | 6984 6992 6986 6983 [12.9] 6981 (6988) | 6913 [13.0]
| 680 6982 6860 [[underlined]] 6993 [[/underlined]] [12.7] 3326

| Faint only on A 6913. Faintness appears to be genuine, though slight.
Not to be announced.

599 | 6913 [12.5] 2187 [12.5] | 6984 6860 6982 6980 6988 6985 [13.1]
6981 6983 6986 [[underlined]] 3326 [[/underlined]] 6989

| Southern of two stars

6
600 | 6913 [13.7] (6992) 6986 (6981) 6988 | 6984 (6983) 6985 [14.3]
3393 [14.6]
601 [[strikeout]] 6913 [13.7] [[/strikeout]] ^ [[6984]] [[underlined]] 6980
[[/underlined]] [13.5] [[underlined]] 6988 [[/underlined]] 6985 6981 |
[[strikeout]] 6984 [[/strikeout]] 6913 [13.7] [[underlined]] 6992
[[/underlined]] [14.0]
| 69836986 [13.4] 33933326218121836989

| Is this variable of the [[?]] type ?

603 | 6984 (6988) [[underlined]] 6985 [[/underlined]] [13.8]
[[strikethrough]] 6983 [[/strikethrough]](6986) | 6984 [[strikeout]] [14.2]
[[/strikeout]] [[underlined]] 6981 [[/underlined]] [14.6] [[strikethrough]]
6983 [[/strikethrough]] [[underlined]] 6955 [[/underlined]] 6913

| 6992 (6989) Found while observing no. 603. Variation well seen

605 | 6984 6985 [14.2] 6981 | 6913 [14.96] (6982) 6988 6980
606 | 6913 [13.6] (6981) (6980) 6988 | 6984 [[strikethrough]] (6981)
[[/strikethrough]] 6985 [14.5] (6982) 6983
607 | 6913 [13.5] 6980 | 6984 6983 6988 6985 [14.6]
608 | 6913 [13.1] 6980 (6988) [[underlined]] 6986 [[/underlined]] | 6984
6983 6984 [14.2] 6981 (6992) 6982
609 | 6985 [14.1] 6981 6988 | 6992 6986 [14.6] (6982) 6980 6913
| Variation well seen
610 | 6912 [14.1] 6982 6992 | 6984 6985 [14.7] (6986) 6981

611 | 6913 [14.2] 6981 6986 | 6984 6980 6988 6985 [14.7] 6983
612 | 6913 [13.0] (6992) (6989) 2187 [12.9] |
6984 6982 [13.5] 6986 6988 6981 6980 6983 [13.5]
(faint [?] no. [12?]) 613 | (6980) 6986 6985 [13.7] 6913 | 6988 [14.4]
6981 6983 6992

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

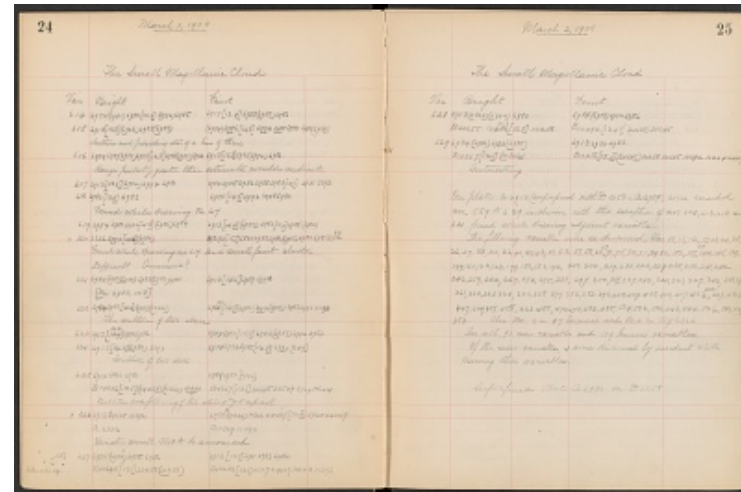
[[preprinted]] 24 [[/preprinted]] [[Underline]] March 1, 1905 [[/Underline]]
 The Small Magellanic Cloud
 Var | Bright | Faint
 614 | 6984 (6981) 6980 [12.9] (6992) 6985 | 6913 [13.4] 6983 (6988)
 6986
 615 | 6913 [13.8] (6982) 6985 (6983) | (6984) [[Underline]] 6986
 [[/Underline]] [14.8] [[Underline]] 6992 [[/Underline]] [[Underline]] 6988
 [[/Underline]] 6980 6981 (6989)
 | Southern and presiding star of a hive of three
 616 | 6984 6989 (6980) 6983 [12.8] 6988 (6985) 6982 6913 [13.3] 6981
 (6992) 6986
 | Range probably greater than estimates would [[?]]
 617 | 6913 [13.6] (6982) 6992 6980 | 6984 6985 6986 6988 6983 [14.1]
 6981 3393
 618 | 6986 [13.9] 6983 | 6985 [14.9] 6992 6988 6980
 | Found while observing No. 617
 619 | 6984 6981 6992 [14. [[Underline]] 4 [[/Underline]]] (6986) 6984 |
 6913 [14.9] (6980) 6983 [15.0] 6988 (6982)
 x 620 | 3326 6992 [14.4] (6980) | [[/strikethrough]] 39 [[/strikethrough]]
 3393 [15.1] 6860 6985 6986 (6988) 6983 6981 69 [[/strikethrough]] 92
 [[/strikethrough]] ^ [[89]]
 | Found While observing no. 619 for a small faint cluster.
 Difficult. [[?]]
 621 | 6984 (6981) (6980) 6983 (6986) 6985 | 6913 [14.6] 6989 6988
 | On 6983, 13.8 |
 622 | 6984 6985 [14.2] (6981) (3326) | 69 [[/strikethrough]] 84
 [[/strikethrough]] ^ [13] [14.7] (6986) [[Underline]] 6992 [[/Underline]]
 (6988) 6983 6980 [[Underline]] 3393 [[/Underline]]
 | The southern of two stars
 623 | 6913 [[[/strikethrough]] 13.9 [[/strikethrough]]] ^ [14.2] 6981 6986 |
 6984 6980 [15.0] 6983 (6988) 6992 6982
 624 | 6913 [14.2] (6986) 3393
 | 6984 6982 6985 [14.7] 69 [[Underline]] 9 [[/Underline]] 2 [14.9]
 Southern of two stars
 625 | 6913 6860 6986 | 6984 6982 [6992]
 | B10256 [12.5] (24467) (10362) [[Underline]] 203+3 [[/Underline]] |
 B10367 [13.1] 20645 26549 5729 10264
 | Northern and following of [[?]] 0.4 [[m]] 75 apart
 x 626 | 6913 B9625 10292 | 6984 ^ [[B]] (10264) 10362 24467 [12.9]
 5725 26549
 | A 3326 | | B10367 10296
 | Variation small. Not to be [[?]]
 627 627 | 6984 (698 [[/strikethrough]] 6 [[/strikethrough]]) ^ [[0]] 6985 6986 |
 6913 [13.5] 6981 6983 [[/strikethrough]] 6986 [[/strikethrough]]
 [[?]] side up | B20645 [13.1] 20655 (20638) | B10256 [13.9] 10367 24467
 10264 10292

[[End Page]]
 [[Start Page]]

[[Underlined]] March 2, 1905 [[/Underlined]] [[Preprinted]] 25
 [[/Preprinted]]

The Small Magellanic Cloud

Var | Bright | Faint |
 628 | 6913 (6860) (6992) 6980 | 6984 (6988) 6982 6986
 | B20655 10 [[/strikethrough]] 256 [[/strikethrough]] ^ [[367]] [12.8] 10256
 | B10292 [13.4 ^ [[2]]] (20638) 20645



629 | 6984 (6986) 69 92 (6985) | 6913 6980
6983
| B10367 [12.1] (10362) B10256 [13.0] (20645) 20638 20655 10292
1026 424467
| Interesting
| On A6913 (with D 11158 = A6984) were marked no. 559 to
629 inclusion, with the exception of nos. 604, 613, 618 and 620, found
while adjacent variables.
| The following variable were re- , Nos. 10, 11, 12, 17, 23, 24, 25, 26,
27, 28, 30, 36, 41, 47, 48, 51 52 57, 58, 60, ^ 71, 75, 80, 81, 84,
86, 100, 177 ^ 144, 145, 139, 149, 160, 162, 163, 179, 181, 183,
192, 200, 202, 217, 221, 226, 229, 235, 236, 241, 242, 246, 259, 262,
269, 274, 275, 281, 297 300, 317, 337, 340, 320, 321, 327, 343, 358,
359, 361, 362, 363, 365, 366, 368, 377, 382, 383 393, 404, 409 408,
410, 417, 423 ^ 427, 433, 447, 449, 457, 458, 463, 455, 470,
473, 483, 485, 504, 506, 536, 543, 544, 546, 542, 549, 554. Also No. 3 in
47 and No. 2 m NGC362
| In all, 71 variables and 109 variables.
| Of the new variables, 4 more by accident while other
variables.

| Superfined Plato A6990 on D11158

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[Preprinted]] 26 [[/Preprinted]] March 2, 1905

| The Small Magellanic Cloud

Var | Bright | Faint |

630 | 6990 [13.8] 6983 (6986) 6982 | 6984 6983 6980 [14.4] 6981 6988 3326

631 | 6984 [| 6990 ~~[13.2]~~]

| B5725 [12.3] 10264 [12.1] | B24467 [13.2] 10362 10292

632 | 6990 [14. ~~[2]]~~] (6980) 6992 |

(6984) 6988 [14.7] (6985) 69 8 2 [14.9] 69

8 1 6 98 6

83 ~~633~~ | 6990 [14.0] 6983 6980 [13.7]

6981 [13.6] | 6984 6986 [14.3] 6988

633| 69 ~~90~~ ^ ~~84~~ 6988 [13.7] 6982

[13.6] 6985 6981 6986 | 69 ~~84~~ ^ ~~90~~] 1

~~3~~ ^ ~~4~~ 6992

(6980) Variation doubtful. Not to be announced

| For confirmation of No. 633, See Book XVIII. P. 28

[[End Page]]

[[Start Page]]

March 3, 1905 [[preprinted]] 27 [[/preprinted]]

| The Small Magellanic Cloud

Var | Bright | Faint

634 | 6990 [14.3] (6986) (~~6981~~) 6992 |

6984 6983 6980 6985 6982 (6981) 6988 [On 6980, 15.0]

635 | 6990 [14.0] 6980 6981 6981 6988 | 6984 6986 [14.6] 6983 6982

6985

x 636 | 6986 [14.2] (6983) (6982) 6985 6988 | 6980 [14.6]

x 637 | 6981 6988 3393 | 6986 [14.5] 6980 (6983) 6982 6985

| Nos. 636 and 637 were found while observing no. 635. The fluctuations

of both are small and they are not to be announced.

638 | 6984 6985 [14.0] | 6990 [14.6] 6986 6980 6988 6981

69 8 2 69 8 3

639 | 6984 6986 6985 [13.7] 6 95 2 [13.3] 69

8 3 | 6990 [14.2] ~~6986~~

6980 (6988) 6981 6

640 ~~[13.7] 6992~~ | 6984 6982

6955 [14.3] 6 98 1 [14.7] 6988 6980 6986

641 | 6990 6986 [14.2] (6988) | 6980 [14.7] 6981 [14.9] 6985 6982

642 | 6990 [14.1] 6982 6992 | 6984 [14.7] 6985 (6981) 6988 69

8 0 6986

643 | 6990 [13.6] 6986 (6980) 69 8 8 | 6984 6985

[14.4] 69 8 5 [14.5]

644 | 6984 6985 [13.7] 69 8 2 [13.4] | 6990 [14.1]

6981 6988

| Marked in first from D 7092. Hidden in enlargement by figure 305

645 | 6990 [14.6] (6986) 6981 [14.5] | 6984

(6988) 6980 6982 [15.0] (6985) 3393

| Variation will see.

646 | 6990 [14.2] 6 91 3 3393 | 6984 6986

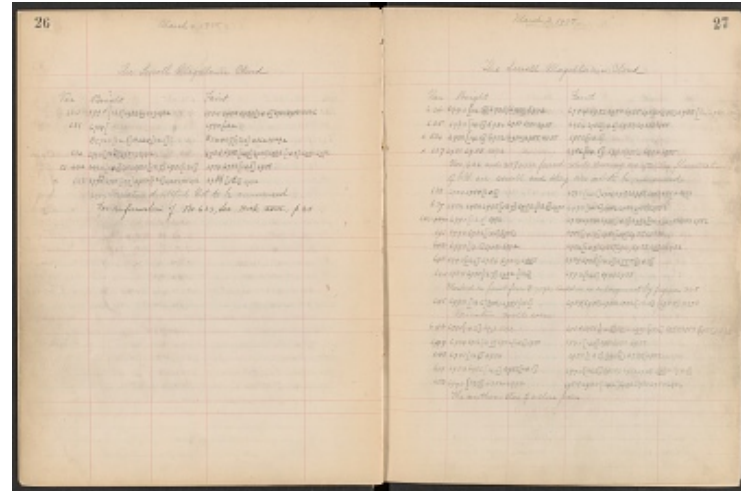
[14.6] 6 98 1 [15.0] 69 8

0 6988 (6985) 332.6

647 | 6984 6986 [14.3] 6982 [14.1] 6985 | 6990 [14.6] 6981 6980 6988

648 | 6981 [13.9] 6986 | 6990 [14.7] (6980) 6981 6988 6 98

2 [14.9]



650 | 6990 [13.7] 6982 6992 | 6984 6985 [14.6] 6988 6981 6980 6986
| The northern star [[?]] fair

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 28 [[/preprinted]]

[[underlined]] 28 March 4, 1905 [[/underlined]]

The Small Magellanic Cloud

Var Bright Faint

{651 strikethrough} 69906860
6984698669886980^2698169826985

Probably not variable. Has a nebulous appearance, varying slightly on different plates. Probably in a faint cluster which varies in appearance according to the exposure and quality of the plates.

652 6990 {14.4} 6981 6986 69846985 {14.7} (6982) (6988)

Variation well seen, though small

653 6990 {14.2} 6992 (6980) 69846988 {14.7} (6981) (6986) 6982

654 69846988 {14.2} (6980) (6985) (6860) 3326 {underlined} 6990
{14.8} 6981 (69800)Variation small but well seen
(6985) 6860

Variation well seen, though small

654 69846988 {14.2} (6980)(6985) (6860) 3326 {underlined} 6990
(14.8) 6981 3326 {14.9} (6913)

655 6982 {14.4} 6985 6860698069883393698669813326 {14.9} (6913)

Found while examining no. 654. Has a slightly nebulous appearance

656 69846988 {14.5}698069826985 6990 {15.0} 6981 6986 6860
{15.2}

657 6990 {14.1} 69826992 69846985{14.6} 6986 6980 {underlined}
{14.9} 6981 6988

658 6990 {13.8} 6980 {13.6} 69846988{14.7}(6981)69866982

659 6990 {14.0}(6980) (6086) (6982) 69846988 {14.9}6981

Northern state of three

660 6990 {14.6}(6989)(6991) 66846982{15.2}698669806981 {<15.2}
6988 6992

Apparently of the cluster type. {southern of two stars strikethrough}

661 69846988 {14.4} (6982) 6985 {14.3} (6990) {14.7} 6981 {14.8}
(6980) 6986 {underlined} well seen

662 6990 {14.6} (6980) 6989 (6991) 69846985 {15.2} 6986 6981
{underlined}

(6988)6982 (6992)

Resembles no. 660

663 69906982 {14.3} 6913 {On 6990, 14.1} 69846985698669806981
{14.6} 6988

664 6990 {14.4} 6982 (6980) 6986 {underlined} {14.2} 69846988 {14.7}
6981 {underlined} {15.0}

[[end page]]

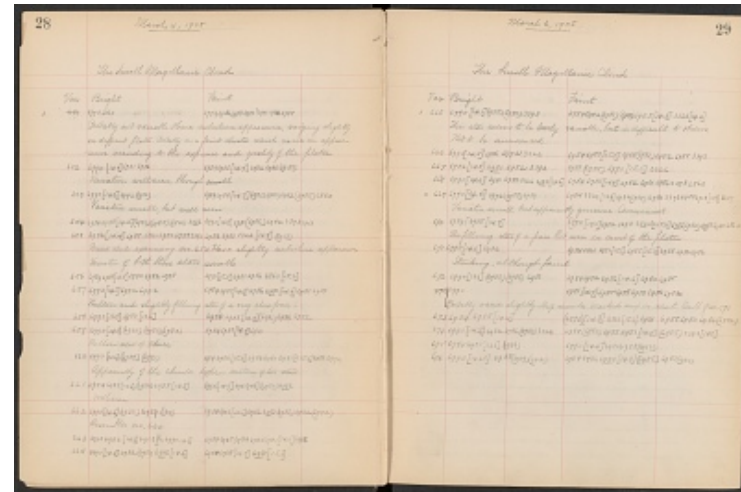
[[start page]]

[[preprinted]] 29 [[/preprinted]]

[[underlined]] 28 March 6, 1905 [[/underlined]]

The Small Magellanic Cloud

Var Bright



Faint
 ^[[x]]665 6990[14.1](6988)(6980)3393
 69846982(6981)(6986)6985[14.3]3326[14.6]
 This star seems to be barely variable, but is difficult to observe.
 Not to be announced.
 666 6990[14.5]698669923326
 69846980[15.0]3326
 667 6986[14.5]((underlined))6981((underlined))69823393
 69846985[14.9]69826988698633936860
 668 6990[14.6]698169803326((underlined))2183((underlined))[14.2]
 69846985[14.9]69826988698633936860
 ^[[x]]669 6990[14.5]6992(6988)6989
 69843326[14.9]6982(6985)6980339369866913[15.0]2187
 Variation small, but apparently genuine. Announce?
 670 698416985[14.8]

 (6990[15.0])69823393((underlined))3326((underlined))[<15.2]((underline
 d))6986((underlined))(6980)((underlined))6988((underlined))69816860
 The following star of a pair. Not sure on most of the plates
 671 6990[14.6]6982
 698468606981[15.1]6985[15.2]698869806986
 Striking, although faint.
 672 6990[13.6](6980)(6988)6981
 698469826986[14.6]69806985
 [[strikethrough]]673[[strikethrough]] 6990
 6981[14.7]69856988698069866982
 Probably varies slightly. Drop numbers. Marked sup. on chart. South of
 no. 591
 673 69846985[14.4]
 (6990)[14.8]6860[15.2]6981698869806986(6982)
 674 6990[14.2]69826986([[strikethrough]])6981[[strikethrough]])3326
 6984(6980)69886981[14.7](6985)3393[14.8]
 675 69846985[13.6](6986)
 6990[14.6]69816988(6980)
 676 6990[14.22]6988(6989)(6991)
 69846986((underlined))6980((underlined))[14.8](6985)6981(6992)

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[start page]]

[[preprinted]] 30 [[/preprinted]]

[[underlined]] March 7, 1905 [[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

677 | 6990[13.7]698069926989 |
69846985[14.5]6988[[underlined]]6986[[/underlined]][[underlined/]]6982[[
underlined/]](6981)6860
678 | 6990[14.7]6989(6992)(6980) | 6984 6981(6982)6986 6988 6985
(6860) 3326 [F15.4[^][[2]]]

| Variation marked N. of a row of 3 very faint stars.

x 679 | 6990[14.4]6860(6986) (6981)6991

| 6984 6985 6988 6980[14.7]6982

| Probably variable, but changes small and diff. to observe. Do not
announce.

680 | 6990[14.8]6986 6981 | 6984(6860)6988[15.3[^][[2]]] 6985

6980(6982)3326

681 | 6984 6985[14.3]

| 6990[14.6]6981[15.0 (6982)6986(6980)][[underlined]]

6988[[/underlined]][[underlined]]3326[[/underlined]] [[underlined]] 3393
[[/underlined]]

Southern of a line of 3 stars- Variation will seen

682 | 6990 [14.6] 6981 [[underlined]] 6986 [[/underlined]] [14.4] | 6984

6982 [15.1] 6988 6985 6980

| Following of a line of 3 very faint stars.

683 | 6984 [14.1] 6985 3326

| 6990 [14.5] 6980 6988 (6986) [[underlined]] 6982 [[/underlined]] [14.7]
6981(3393)

684 | 6990 [13.8](6985)(6980)

| (6984) [[underlined]] 6981 [[/underlined]] [14.6] 6982 6986 6988

685 | 6990 [14.0] 6988 [13.7](6986) | 6984 6860 (6980)[[underlined]]

6985 [[/underlined]] 6982 6981[14.4][[underlined]] 3326 [[/underlined]]
[14.6]

| Southern of two stars.

686 | 6990 [14.1] 6980 [14.4 (3393)] (6984) 6981 [14.8] 6982 6986 6988

6860 [[underlined]] 3326 [[/underlined]] ~~[[/underlined]]~~ 684

~~[[/underlined]]~~ Following star of a line of three.

687 | 6984 6985 [13.4] (6988)(6986) | 6990[13.6] [[underlined]] 6860

[[/underlined]] [14.0] 6980 6982 (6981)

126 ~~[[/underlined]]~~ 6988 ~~[[/underlined]]~~ 6984 (6988) 6986 [13.4]

6985 | 6990 6982 [13.6] 6981 [14.2]

417 ~~[[/underlined]]~~ 6989 ~~[[/underlined]]~~ 6984 6986 [13.7] 69851 |

6990 6988 [[underlined]] 6982 [[/underlined]] [14.8][[underlined]] 6981
[[/underlined]]

688 | 6990 [13.3] (6986) 6988 | (6984) (6985) [13.7][[underlined]] 6980

[[/underlined]] [14.1][[underlined]] 6981 [[/underlined]] 6982

689 | 6990 ~~[[/underlined]]~~ 13.5 ~~[[/underlined]]~~ [^][14.0]]]

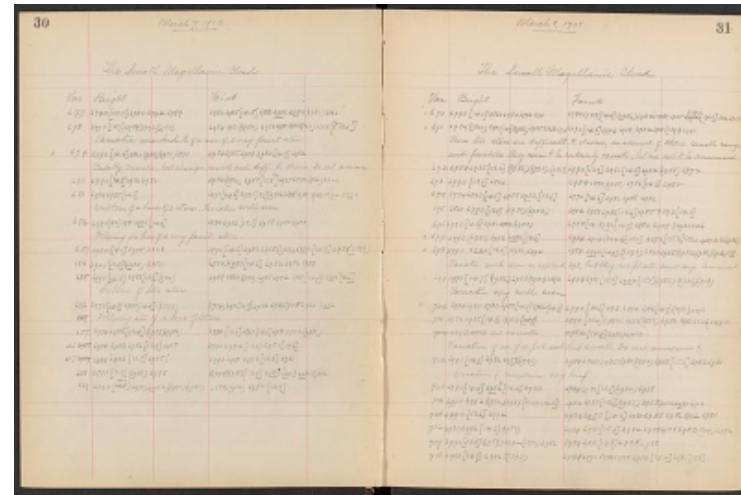
(6988)(6982) (6981) (6980) | 6984(6986 [[underlined]] 6985

[[/underlined]] [14.8]

[[end page]]

[[start page]]

[[underlined]] March 8, 1905 [[/underlined]] [[preprinted]] 31



[[/preprinted]]

The Small Magellanic Cloud

Var | Bright | Faint

x 690 | 6990 [14.0] 6860 6980 6992 6991 | 6984 6988 [14.4] (6986)
6982 6981 6985 3393 ~~[[/strikethrough]]~~ 6992 ~~[[/strikethrough]]~~ [14.6] 3326
6913
x 691 | 6984 (6860) 6980 [14.6] (6986) 6985 3326 6913
| 6990 [14.9] 6992 6988 6982 6981 (3393) 6991
| These two stars are difficult to observe, on account of their small
range and faintness. They seem to be certainly variable, but are not to
be announced.
692 | 6984 6985 [13.2] (6986) (6980) (3393) | 6990 [13.9] 6981 [14.0]
6982 (6988) 6992
693 | 6990 [13.6] 6860 | 6984 6980 (6988) 6986 [14.3] 6985
694 | 6984 6860 [14.0] 6985 [[/underlined]] 6982 [[/underlined]] [13.6]
6990 [14.6] 6980 6988 6986
695 | 6860 [[/underlined]] 6980 [[/underlined]] [13.0] (6981)(6982) | 6992
6988 6986 [13.6] 6985 3393 [14.0]
696 | 6990 [14.6] 6981 6982 (6988) | 6984 [14.[[/underlined]]] 6986
[[/underlined]] [14.7] 6980 6985 3393 3326
x 697 | 6990 (6980) 6992 [[/underlined]] 6986 [[/underlined]] [14.6] | 6984
6913 (3326)[15.0] 3393 [15.2] 6860 6985 6988 (6981)
x 698 | 6990 [[/underlined]] 3326 [[/underlined]] [14.6 (6980) 6992 | 6984
[[/underlined]] 6913 [[/underlined]] [14.9] (3393) 6860 6985 (6988) (6986)
(6982) 6981

| Variation will seen in 697 and 698, but they are lit with small range.
Announce?

699 | 6990[14.7] (6986) 6988 (6980) 3393 | 6984 6981 [15.0]
[[/underlined]] 6982 [[/underlined]] [15.1] (6985) (3326) (6913)

| Variation very well seen

x 700 | 6984 6985 6980 6988 [14.5] 6982 [14.4] | 6690 [14.6] 698 6992
6986 [14.7] (6981) 3393
701 | 6984 6985 [14.9] (6913) [14.7] | 6990 [15.2] 69806 6992 (6988)
6986 6981 332 (63393) 69
~~[[/strikethrough]]~~ 702 3393 6913 ~~[[/strikethrough]]~~ Not variable |
~~[[/strikethrough]]~~ 6982 [14.4 (6981) 6913 ~~[[/strikethrough]]~~

Variation of no. 700 prob. real, but small. Do not announce?

702 | 6990 [14.7] 6986 [[/underlined]] 6989 [[/underlined]] (6991) | 6984
6860 6985 6980 (6992) 6988 [15.3] 6982 6981

Duration of maximum very brief

703 | 6990 [14.4] [[/underlined]] 698 ~~[[/strikethrough]]~~ 6 ~~[[/strikethrough]]~~ ^
[[/underlined]] [14.2] 6980 | 6984 6981 [15.1] (6982) 6988
704 | 6990 6992 (6982) 6989 [On 699014.0] | 6984 6980 [14.6] (6985)
6988 (6986) [[/underlined]] 6981 [[/underlined]] 6913
705 | 6990 [13.6] 6992 | 6984 [[/underlined]] 6980 [[/underlined]] [14.6]

6985 6988 6986 6982 6981
706 | (6990) 6986 [14.5] (6989) | 6984 6981
[15.2] 6982 2988 6985 6980 (6991) 6992
707 | 6990 [13.8] (6989) 6992 (6981) 6986 | 6984 6982 [14.8] 6985
6988
708 | 6990 [14.7] 6982 (3393) | 6984 6980 6988 6985 6986 [15.2] 6981
[15.3]

[[end page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 32 [[/preprinted]] March 9, 1905
[[/underlined]]

| The Small Magellanic Cloud

Var | Bright | Faint

709 | 6990 [14.3] 6992 6989 (3393) | (6984) 6980
[[/underlined]] [15.0] (6985) 6988 [[/underlined]] [15.1]
6986 (6981) 6982 3326 [[/underlined]]
710 | 6984 6982 [13.5] 6981 | 6990 [14.3] 6992 (6986)
711 | 6990 [14.7] (3393) (6981) (6986) 6989 (6991) | 6984 3326 [[/underlined]] [15.3] ^ [[?]] 6980 6985 6988 6982 (6992)
712 | 6990 [14. ~~1~~] ~~2~~ ^ ~~5~~]] 6992, 6989,
6991 | 6984 6860 (6980) 6985 6988 6982 [14.9] 6981 6986
713 | 6990 [14.2] (6980) (6986) 6989 | 6984 6860 6985 [15.1] 6988
(6982) 6981

| The variation of no. 71 ~~3~~ ^ ~~2~~] though
small, seems to be real.

x 714 | 6990 (6981) 6980 [13.6] | 6984 6986 6982 [13.8] 6988 6985
6860 [14.0]

| Variation difficult to observe and [[?]] [[?]]. Do not announce.

~~715~~ The [[?]] star seems to vary
slightly.

x 715 | 6990 [14.6] (6982) (6988) 6989 6992 6 99
[[/underlined]] 1 | 6984 6986 6982 6985 6980 3393
[[/underlined]] [14.9]

| Variation appears to be real, but small. Do not announce.

716 | 6990 6982 [14.5] 6988 3326 [[/underlined]] 6913 |
6984 6981 [[/underlined]] [15.0] (6985) 6980 6986
[[/underlined]] 3393

Variation will seem no comparison with a star of magn. 14.9 which which
follows the variable by 0. ^ ~~10~~

717 | 6990 6986 [14.4] 6981 6860 (6913) 3326 6992 | 6984 6980 6985
[14.8] (6988) 6982 3393

| Variation will seen, through small. Announce?

718 | 6990 [14.1] 6982 | 6984 6981 [15.0] 6988 6980 6986.
719 | 6990 [13.6] (6985) 6982 6981 | 6986 [14.9] 6980 6986.
x 720 | 6984 3393 [[/underlined]] [14.5] 6982 (6980) | 6990
[14.7] 3326 [15.0] 6913 6981 6988 6986 [[/underlined]]
6860

| Difficult on account of crowding of field. Star following closely is also

probably variable. No. 720 first seen on [[?]] 3393, 6985, 6986, 6986, 3326

721 | 6984 (6986) 6980 6985 [14.0] 3326 | 6990 [14.6] (6988) 6982 (6981) 3393 [14.8]

| Central star of 3 extending E + N

722 | 6990 [13.7] 3393 | 6984 ~~[[strikethrough]]~~ 7 ~~[[/strikethrough]]~~ ^ ~~[[6]]~~ 981 [14.9] 6982 [15.0] 6988

Well seen 723 | 6990 [14.1] 6981 6982 6988 (6980) 6913
x 724 | 6990 [14.3] (3393) (6986) | 6984 6860 6980 6985 6982 [14.6]
[[underlined]] 3326 [[/underlined]]

| Variations small, though probably real. Not to be announced.

725 | 6990 [13.7] 6860 | (6984) 3393 [14.9] 6981 6988 (6982) (6986)

[[End Page]]
[[Start Page]]

[[underlined]] March 10, 1905 [[/underlined]] [[preprinted]] 33
[[/preprinted]]

| The Small Magellanic Cloud

Var | Bright | Faint

x 726 | 6990 [14.5] (6986) | 6984 (6981) 6988 [14.9] 6982 6985 6980
6860 3393 3326 6913
727 | 6990 [13.7] (6913) (6989) 6992 (6986) | (6984) 6981 [14.5] (6988)
6982 (6985) ~~[[strikethrough]]~~ (6986) ~~[[/strikethrough]]~~ 6980 6860 3393
3326

| The variation of no. 726 is small, though prob real. Not to be announced.

728 | 6690 [14.2] 6982 (6988) 6983 | 6984 6981 6980 6986 [14.9]
(3393) [[underlined]] 3326 [[/underlined]] 6860
729 | [[underlined]] 6990 [[/underlined]] [[underlined]] 6986 [[/underlined]]
[14.4] (3326) 6989 | 6984 (6980) (6981) [[underlined]] 6982
[[/underlined]] [14.8] (6988) 6860 [[underlined]] 3393 [[/underlined]]
[14.9]

Variation small, but well seen

730 | 6990 [13.8] 6988 6980 6981 | 6984 (6982) 6985 [14.8] 6986
731 | 6990 [14.3] 6985 (6989) [[underlined]] 6992 [[/underlined]]
[[underlined]] 6991 [[/underlined]] | 6984 6981 [14.9] (6986) 6980 (6982)
6988 (6983) (6987) 6860 3393

| Notice rapid change from ~~[[flates?]]~~ 6984 ~~[[symbol - arrow]]~~ 6985,

[[latson?]] on the same night.

732 | 6984 (6982) 6988 6985 [On 6988 14.4] | 6990 [15.1] 6860 3393
6989 6981 6980 6986
733 | 6990 [14.4] (6981) 6987
6990 | 6988 [14.7] 6985 6982 6980 6860 6983 (3393)
3326 [14.9] 6913
734 | 6986 [14.4] (6981) 6987
6990 | 6988 [14.7] 6985 6982 6980 6860 6983 (3393)
3326 [14.9] 6913

| No. 734 is the following of [[?]] stars.

735 | 6990 [14.6] 6989 (6992) ~~(6988)~~ ^
~~6981~~ (6982) 6986 | 6984 6860 6980 ~~(6981)~~
~~6985~~ ~~[14.8]~~ ^ ~~[15.2]~~
[[?]] 3326 3393 6988

| The northern star of a very close pair. Best separated on ~~6990~~
and 3326

736 | 6990 [14.2] 6986 6991 | 6984 6980 (6981) 6988 6985 [15.0] 6982
737 | 6984 6985 [14.0] (6986) (6980) | 6990 [14.6] 6982 (6988) (6981) 1
738 | 6990 [14.2] 6980 6981 6988 3326 3393 | 6984 6986 [14.5] 6985
[14.7] 6982
x 739 | 6990 3393 [14.7] 6980 | 6984 3326 [15.1 ^ [[?]]] 6986 6985 6988
6982 6981

| Variation seems to be real, though very small. Not to be announced

~~741~~ ^ ~~[273]~~ | 6990 [13.7] 6980 6981 |
6984 6985 [14.5] 3393

| The star originally [[?]] 273 is not ~~viewable~~, but was indirectly of
sound of this, which shows marker [[?]] Any effect of [[?]] primarily of
sound was done in the close neighborhood of the star

[[End Page]]

[[preprinted]] 34 [[/preprinted]] March 10, 1905

The Small Magellanic Cloud

Var | Bright | Faint

741 | 6990 [14.4] 6980 6981 6986 | 6984 6985 [14.7] 6988
[[/underlined]] [14.9] 6982 (3393) 3326
[[/underlined]]

Variation well seen

742 | 6990 [14.3] (6982) 6992 6986 | 6984 6980 [15.0] 6981 [15.2] 6988
743 | 6990 [14.5 ^[[2]]] 6986 6992 6982 6988 6981 6980 | 6984 6985
[u.s < 15.2]
| 339333266913 | [[Algt?]] type ? Uniform on all plates except 6984 +
6985
744 | 6990 [14.3] (6992) (6986) | 6984 6980 (6981) 6985 [15.1] 6988
6982
745 | 6990 [13.5] 6986 6982 6988 6981 (6980) 6860 | 6984 6985 [14.5]
6988 [[/underlined]] 6982 [[/underlined]]

| The southern ^ [[+ [[freuding?]]] star of a pair separated by 0. ^ [[m]]
05

[[End Page]]
[[Start Page]]

[[/underlined]] March 11, 1905 [[/underlined]] [[preprinted]] 35
[[/preprinted]]

Var | Bright | Faint

x 747 | 6990 [14.6] 6992 [[/underlined]] 6989 [[/underlined]] | 6984 6982
[15.0] 6988 6985 6981 6980 (6986)

| Variation apparently real, but small. ~~[[/strickethrough]]~~ Not to be
announced ~~[[/strickethrough]]~~

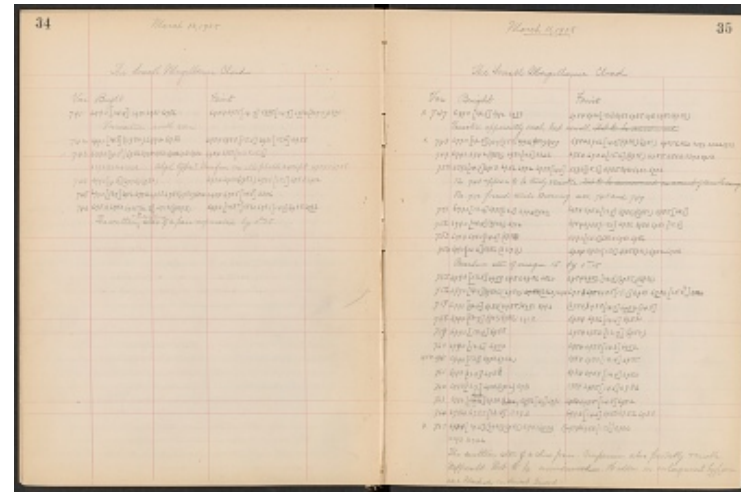
x 748 | 6990 [14.5] 6989 (6988) 6992 (6980) [[/underlined]] 6987
[[/underlined]] | 6984 6982 [14.8] (6986) (6981) 6985 6860 3393 3326
6913

749 | 6990 6992 (6986) 6980 [14.6] 3326 | 6984 6982 [15.2] (6981)
6985 6860393 6913

750 | 3393 [14.7] 6913 6986 6992 6988 [14.6] | [[/underlined]] 3326
[[/underlined]] [15.2] 6985 6981 6080 6982

| No. 748 appears to be truly variable. ~~[[/strickethrough]]~~ Not to be
announced on account of small range. ~~[[/strickethrough]]~~

| No. 750 found while observing nos. 748 and 749



751 | 6990 [13.4] 6988 [13.1] 6992 (6980) | 6984 6982 [13.9] (6986)
(6981) 6985 [14.1]

752 | 6990 [14.4] (6982) 6996 | 6984 6988 [15.0] 6986 6980 6981 [15.2]

753 | 6984 6985 [14.4] (6980) | 6990 [15.0] 6860 6981 6986

754 | 6990 [14.2] 6986 (3393) | 6984 6980 [15.0] 6985 (6981) 6982
6988

| [[?]] a star of [[?]] 15 by 0. [^][[m]] 15

755 | 6990 [13.8] 6988 6980 6986 6860 |
6984 6982 6985 [14.4] (6985) (6981)

756 | 6990 [14.6] (6982) (6980) ~~6986~~ ~~6860~~ 3313 | 6988 ~~6986~~ ~~6985~~ [15.1]
6981 6986 6986 [15.3 [^] [2]] ~~6986~~
~~6860~~

757 | 6990 [14.2] 6980 (6985) 6981 6992 |
(6984) 6988 [14.7] 6982 [14.8]

758 | 6990 [13.7] (6981) 6913 | 6984 6986 [14.4] 6982

759 | 6990 [12.9] 6988 | 6984 6982 [13.7] (6980)

760 | 6990 [13.6] 6950 | 6984 6988 [14.9]
6980

450 ~~761~~ | 6990 [13.9] 6988
6988 (6982) | 6984 6980 [14.4] 6985

761 | 6990 [13.8] 698 ~~0~~ [^] [2] | 6984
6988 [14.9] 6980

762 | 6990 [13.7] 6988 (6982) 6981 | 6984 6985 [14.5] 6986

763 | 6990 ~~[14.4]~~ [^] ~~[13.8]~~ ~~6980~~ (6982) 6986
[14.1] 6981 | 6984 6985 [14.5] 6982

764 | 6984 6985 [13.4] 3393 | 6990 [14.6] 6988 6982 6980

x 765 | 6990 [14.2] (6980) (6985) 6981 6986
| (6984) 6988 [15.0 [^] [2]] 6982
| 3393 3326

| The northern star of a close pair. Companion also probably variable.
Difficult. Not to be announced. No [[?]] on enlargement by figure 221.
Marked on direct [[?]].

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 36 [[/preprinted]] March 11, 1905

The Small Magellanic Cloud

Var | Bright | Faint

x 766 | 6990 [13.5] 6988 6980 6982 (6981) 6986 6984 6985 [13.9] 6913
[

[[Alogob?]] type? Constant on [[?]] plates. Certainly real, though small.
Announce?

x 767 | 6990 [13.7] 6986 6981 6992 (6985) 6982 6984

Probably not variable. Faintness may slight on plate.
6984, and may not be genuine. Do not announce.

768 6990 [14.5] 6981 | 6984 6988 [14.9] 6980 6982 6986 3893 [15.0]

Certainly variable. Preceding star of a pair.

769 6984 6988 6980 [139] 6985 [13.7] 6986 6981
6981 6990 [14.4] 6982 [14.6]

x 770 6990 6980 | 6984 6985 [15.0] 6980

Almost hidden on enlargement by figure 546

[[End Page]]
[[Start Page]]

March 13, 1905 [[preprinted]] 37
[[/preprinted]]

Var | Bright | Faint

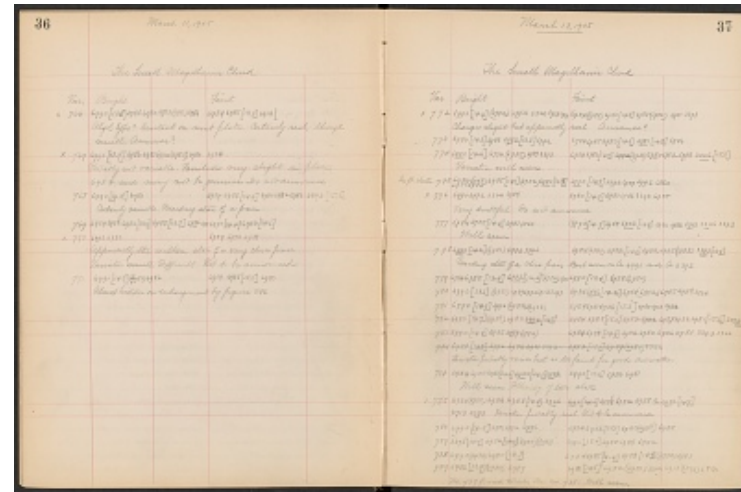
x 772 6690 [14.4] (6982) 6992 3326 6913 6989 6984 (6988) 6980 [14.8]
6985 (6986) 6981 3393

Changes slight but apparently real. Announce?

773 6990 [14.2] 6988 6982 6982 [13.8] 6992
6984 6985 6980 [14.6] 6981 6982 [14.8] 6986

774 6990 6990 [14.6] 6992 (6985) 6989 3393
6984 6986 [14.9] ~~6992~~ (6981)
6980 6982 6988
3326 [15.0]

Variation well seen.



In H cluster 775 6984 (6988) 6985 [14.1] (6982) 6980
[13. ~~7~~ ⁸] 6990 [14.8] 3326 6989 6992
6860

x 776 6990 6992 3326 6988 6980 [14.7] 6981 6986 3393 6985

Very doubtful. Do not announce.

777 6984 6985 [14.4] 6981 6860 (6990) [14.7] 6988 6982
[14.9] 6980 6986 6913 3326
3393

Well seen

778 6990 [14.2] (6981) 6986
3326 6984 (6860) 6982 [14.6] 6982 6985 (6988)
3393 [14.9]

Presenting star of a close pair. Best seen on A 6990 and A 3393.

779 6984 6988 [12.9] 6982 [12.6] (6988)
6981 6990 [13.4] 6988 (6980)

780 6990 [13.6] (6981) 6989 6992 6913 3393 6984 6986
[14.2] 6980 (6982) 6985 6988 3326

781 6990 [14.7] 6992 (6982) (6988) 6984 6981 6986 [15.3] 6985 6913
6980

782 6990 [14.7] (6988) 6980 6992 [14.5]
6984 6985 [15.0] 6982 6982 6989 6986
6981 [15.2] 3393 3326

783 6990[14.4] 6985 6989 (6992) 6984
6988 [14.9] 6982 6980 6986 6981 3393 3326

~~784~~ 6988 [14.8] 6992 6986 6981 3393 6982 [15.1] 6989
(6980) 3326 ~~3326~~

This star probably varies but is too faint for good observation

784 6984 6985 6988 [14.6] 6980 [14.5]
6982 6990 [15.0] 6986 6981

Well seen. Following of two stars

x 785 6984 (6980) 6986 6985 [14.4] 3326
6990 [14.6] 698 ~~8~~
~~1~~ | 6982 6988 On 6982
[14.7] 6913 3393 Variation probably real.
Not to be announce.

786 6990 [14.5] 6981 6992 6986 6984 6982
[15.0] 6980 (6988) 6985

787 3393 [14.7] 6986 [14.6] (6980) (6981) 6990 [15.0] 6985 6988 6982

788 6990 (6986) 6980 [14.1] 6984 6985 [14.4] 6988 [14.7] (6982) 6981

789 6986 [13.9] (6980) 2987 6988 [14.6] 6982 (6981) 3326 6913 (3393)
6860

No. 787 found while no. no 788. well seen.

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]38[[/preprinted]]

[[underlined]]March 13, 1905[[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

790 | 6990 [14.2] (6981) (6980) [[underlined]]6986[[/underlined]] 6987 |
6984 3393 (6982) 6988 6985 [14.7]

Well seen

791 | 6984 (6981) 6860 [13.0] 6985 6980 | 6990 [13.7] 6986
792 | 6984 6985 [13.8] (6913) | 6990 [14.5] 6980 6982 6988

[[underlined]]6986[[/underlined]]6860 6981

^[[x]] 793 | 6990 [14.8] 6986 6982 (6980) (3393) | 6984 6981 [15.1]
(6860) 6988 6985 6913 3326

^[[x]] 794 | 6988 [14.9] 6986 [[underlined]]6982[[/underlined]] 6985 2187
| 6982 6980 3393 [15.3] 3326 2187 6860 6981

Found while observing no. 793.

Both nos. 793 and 794 seem to be truly variable Faint. Do not
announce

795 | 6990 [14.7] 6860 6980 [14.6] | 6984 6981 6986 6988 [15.1] 6985
3326 ~~[[strikethrough]]26[[/strikethrough]]~~ 3393

796 | 6984 6860 6980 [14.7] 6985 [14.6] | 6990 [15.0] 6981 [15.2]

[[underlined]]6986[[/underlined]] 6988 3326 3393

797 | 6981 [14.6] 6988 (6985) | 6990

~~[[strikethrough]]6981[[/strikethrough]]~~ ~~[[strikethrough]]6860~~ [15.0] 6986 696 6980 3326
(3393)

No. 797 found while observing no. 795.

Nos. 795, 796 and 797, though faint, are certainly variable

[[end page]]

[[start page]]

[[preprinted]]39[[/preprinted]]

[[underlined]]March 14, 1905[[/underlined]]

The Small Magellanic Cloud

Var. | Bright | Faint

798 | 69~~[[strikethrough]]90[[/strikethrough]]~~8 [14.4]

[[underlined]]6981[[/underlined]] [14.3]

~~[[doubleunderlined]]6986[[/doubleunderlined]]~~ [13.7] (6988) | 6984 6982
[14.5] 6985 [14.7]

463 ~~[[strikethrough]]799[[/strikethrough]]~~ | 6984 6982 [14.4] 6985 [14.1] |

6990 [14.5] 6986 [14.8] ~~[[underlined]]6988[[/underlined]]~~

(698~~[[strikethrough]]2[[/strikethrough]]~~0)

799 ~~[[strikethrough]]800[[/strikethrough]]~~ | 6990 [14.2] (6986) (6860)

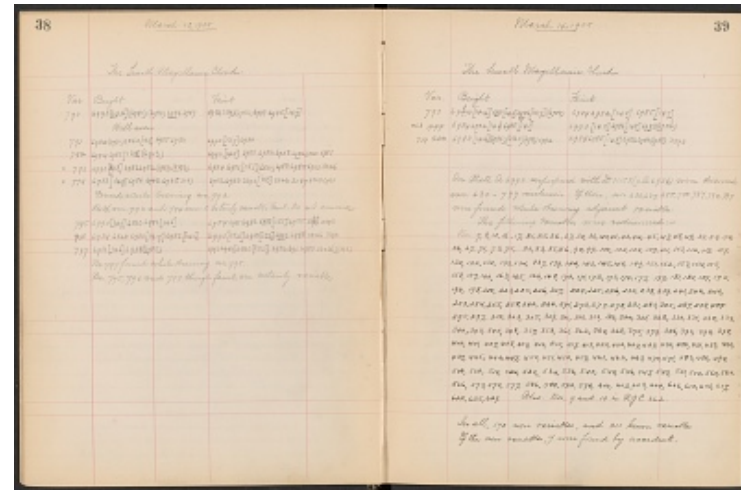
(6981) 6992 | 6984 6985 [14.8] 6982 6980 (6988) 3393

On Plate A6990 superpond with D11158 (=A6984) were discovered nos.
630-799 imchrsin. Of these, nos. 636, 637, 655, 750, 787, 794, 747

were found while observing adjacent variables:

The following variables were rediscovered: -

Nos. 7, 8, 10, 16, 17, 21, 25, 26, 27, 34, 36, 40, 41, 42, 44, 45, 47, 48,
49, 51, 53, 54, 56, 67, 71, 73, 75, 80, 83, 85, 86, 94, 99, 100, 102, 104,
109, 111, 113, 116, 117, 119, 120, 122, 130, 133, 134, 137, 139, 142,



143, 145, 146, 149, 151, 152, 153, 154, 155, 158, 159, 160, 163, 165,
166, 168, 170, 171, 172, 173, 174, 177, 179, 181, 184, 189, 192, 196,
198, 200, 203, 205, 206, 207, 224, 225, 226, 230, 238, 239, 241, 242,
246, 253, 254, 255, 258, 262, 266, 271, 273, 277, 278, 281, 283, 285,
287, 288, ~~289~~295, 297, 300, 303, 305,
309, 311, 312, 313, 316, 320, 321, 322, 330, 331, 338, 339, 340, 343,
345, 348, 357, 358, 361, 362, 364, 368, 375, 379, 386, 393, 394, 398,
400, 401, 407, 408, 409, 410, 415, 417, 418, 422, 426, 427, 429, 430,
~~430~~431, 433, 436, 437, 445, 446, 447,
450, 451, 452, 459, 461, 462, 463, 470, 471, 483, 486, 494, 506, 512,
514, 520, 524, 534, 536, 540, 544, 546, 547, 549, 551, 554, 560, 562,
566, 573, 574, 577, 586, 588, 592, 596, 600, 602, 603, 604, 606, 610,
612, 617, 622, 625, 629. Also, Nos. 9 and 10 in NgC 362.

In all, 170 new variables, and 211 known variables
Of the new variables, 7 more found by accident.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

40

March 14, 1905

The Small Magellanic Cloud

Comparison of Plates of different exposures.

The vicinity of the clusters 371 and 376 (N.G.C.) was examined critically. All the stars in a small region near each cluster were noted and looked for on different plates.

Plate A 6990 (exp. 118^m) was taken as the standard. Plate A 3326 (exp. 303^m) does not certainly show ore stars than A 6990 (in the region examined). Many stars which on A 6990 are to faint to measure five fairly good images. The background in places suggests the presence of ~~many~~ stars below the limit of visibility, or perhaps of nebulous or meteoric matter. The images on the plate are uncommonly clear and sharp.

Plate A 3393 (exp. 300^m) No more stars could be detected on this plate than on A 6990. The images are somewhat stronger and in the case of extremely faint stars, of which the existence as seen on A 6990 might be doubted, the reality of their existence is confirmed. On the other hand, the images are less sharp and often less readily measurable.

Plate A 6986 (exp. 120^m). The presence of nearly all, if not all the stars is suspected, but the images of the faintest stars are not measurable. An excellent plate.

Plate A 6984 (exp. 120^m) resembles plate A 6986.

Plate A 6981 (exp. 240^m) shows no more stars than A 6990. The images are larger and darker, but distinctly less measurable in the case of extremely faint stars.

Plate A 6890 (exp. 240^m). The faint stars in crowded regions can scarcely be individualized. They are present, but not measurable

[[end page]]

[[next page]]

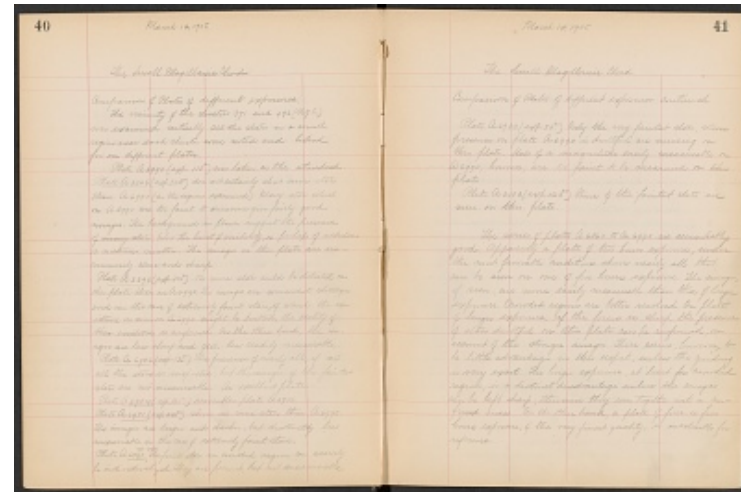
41

March 14, 1905

The Small Magellanic Cloud

Comparison of Plates of different exposures continued

Plate A 6980 (exp. 80^m). Only the very faintest stars, whose presence



on Plate A 6990 is doubtful, are missing on this plate. Stars of a magnitude easily measurable on A 6990, however, are too faint to be measured on this plate.

Plate A 2183 (exp. 123^m). None of the faintest stars are seen on this plate.

The series of plates A 6860 to A 6990 are remarkably good. Apparently a plate of two hours exposure, under the most favorable conditions, shows nearly all that can be seen on one of five hours exposure. The images, if seen, are more easily measured than those of longer exposure. Crowded regions are better resolved. On plates of longer exposure, if the focus is sharp, the presence of stars doubtful on other plates can be confirmed, on account of the stronger images. There seem however, to be little advantage in this respect, unless the guiding is very exact. The longer exposure, at least for crowded regions, is a distinct disadvantage unless the images can be kept sharp; otherwise, they run together into a confused mass. On the other hand, a plate of four or five hours exposure, of the very finest quality, is invaluable for reference.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

42 March 14, 1905

The Small Magellanic Cloud

Comparison of Plates of different exposure cont.

Three regions outside of the Small Magellanic Cloud were examined in a manner similar to that described on Page 40.

Regions near CPD $-72^{\circ} 57$, $-72^{\circ} 68$, and $-74^{\circ} 88$ are near enough the center to give good images. In each region, plates A 3326 and A 3393 show more stars than A 6990; probably stars somewhat more than half a magnitude fainter are seen. Plate A 6981 shows more stars in the first two regions, but not near $-74^{\circ} 88$

Plate A 6988 resembles Plate A 6981.

Plate A 6860 shows no more stars in these three regions than does plate A 6990.

Why are not fainter stars found within the Small Magellanic Cloud, on plates of 5 hours exposure than on those of two? Either fainter stars do not occur within the limits of the region, or they are lost in the light from great numbers of stars below the limit of visibility or from nebulous or meteoric matter.

[[end page]]

[[next page]]

43

March 14, 1905

The Small Magellanic Cloud

[[in 3 columns]]

Var. | Bright | Faint

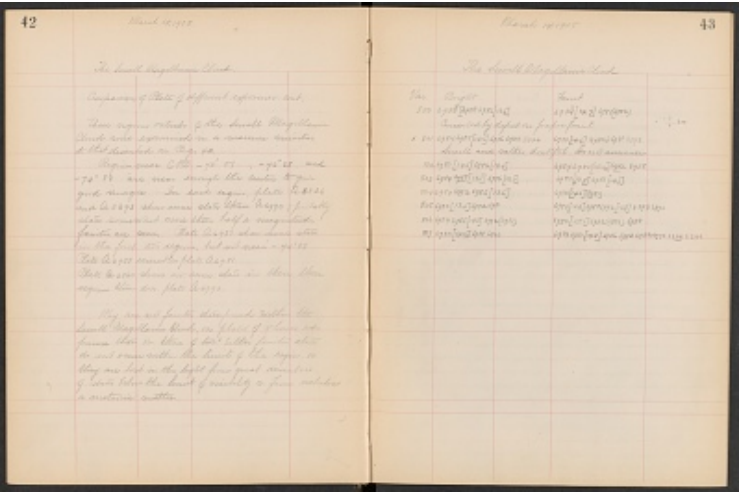
800 | 6984 [6988 6986 [13.6] | 6980 [14.7] 6981 (6982)

Concealed by defect on paper print

x 801 | 6984 6985 [14.2] 6986 6988 3326 | 6980 [14.6] (6982) 6981 3393

Small and rather doubtful. Do not announce.

802 | 6980 [14.6] 6986 [14.4] | 6984 6985 [15.2] 6982 6988



803 | 6984 6988 [13.1] 6986 [13.0] | 6980 [13.9] 6981 [14.1]

804 | 6984 6992 6986 [13.6] | 6980 [14.6] (6981)

805 | 6980 [13.0] 6982 6981 | 6986 [13.6] 6988 6992 [13.8] 3393 6990

806 | 6984 6985 [14.3] 6992 (6981) | 6980 [15.1] 6982 (6986) 6988

807 | 6980 [14.2] 6988 6860 | 6984 6981 [14.8] 6986 6992 6982 6990
3326 3393

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]44[[/preprinted]]

[[underlined]] March 15, 1905 [[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

808 | 6980 [14. ~~2~~] ^ ~~[0]~~] (6988) (6983)
| 6984 (6986) 6981 [14.7] (6990) 6982 6985
3326 3393 6913 6860 6987

Bright only on A 6980, but slight changes are seen on other plates

809 | 6980 [14.7] (6986) (6982) (3326) | 6984 6860 6988 [15.2] 6992
6981 6990 (3393) 6913

810 | 6980 [14.1] 6986 (6988) | 6984 6985 [14.9] 6990 6982 6981

811 | 6984 6988 [12.1] 6986 6981 6982 6990 | 698 ~~4~~
~~[[/del]]~~ ^ ~~[0]~~ [12.8] (6992)

| B9655 5725 [12.6] 24467 | B20645 20638 1 0256
10641 [13.6] 10367 10292 26549

x 812 | 6980 [14.3] 6990 6982 6981 6986 6988 | 6984 6985 [14.7] 3326
3393

| The following star of a close ~~[[?]]~~. Probably variable, but difficult. Not to
be announced.

813 | 6980 [14.5] 6986 | 6984 6988 [15.2] (6992) 6981 6982

| Central star of three extending nearly north and south

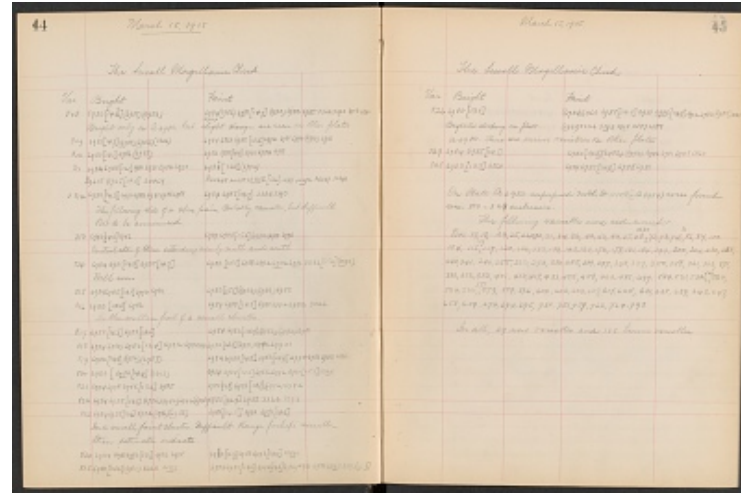
814 | 6984 6981 [14.8] 6985 [14.7] | 6980 [15.1] 6988 6992
6982 6986 3326
[15.2] (3393)

| Well seen

815 | 6984 6985 [14.1] 6992 6981 | 6980 [15.1] (6982) (6986) 6988
813 | 6980 [14.0] 6986 | 6984 6988 [14.8] 6981 6992 6982 3326

| In the northern front of a small cluster

817 | 6980 [14.3] 6988 [14.0] | 6984 6982 [14.9] (6986) (6992) 6981
818 | 6984 (6988) 6986 [13.4] 6982 6985 3393 | 6980 [14.0] (6981)
6992 6990
819 | 6980 [14.3] (6986) (6987) | 6984 6985 [14.8] 6982 [14.9] 6992



6981 6988 6860
820 | 680 [6986] [14.4] (3393) | 6984 6985
[15.0] 6982 6992 6931 [15.1] 3326
821 | 6984 6988 6986 [13.6] 6985 | 6980 [13.8] 6981 [14.1] (6992) 6982
822 | 6984 6985 [14.1] (6986) (6982) 6992 (6981) | 6980 [14.9] 6988
3326 3393
823 | 6984 6985 [13.6] 6982 (6986) (6988) | 6980 [14.1 ^ [2]]] 6990
6981 [14.6]

| In a small, faint cluster. Difficult rays perhaps smaller than estimates
indicate

824 | 6984 6981 6986 [13.6] 6982 6985 | 89
~~9~~ ^ [8] 0 [13.7] 6988 6992 [14.2]
6990
825 | 6980 [14.2] (6982) 3326 2183 | 6984
6985 [14.5] 6992 [14.6] (6986) 6981 6988 6860
3393 [14.8]

[[End Page]]
[[Start Page]]

March 15, 1905 45

The Small Magellanic Cloud

Var | Bright | Faint

826 | 6980 [13.6] | (6984) 6860 6988 [14.5] 6981 6986
[14.7] 6992 6982 (6985) 2183

| Brightness striking on plate | (6990) 3326 3393
6913 2187 2189

| A6980. There are ? ? mountains? on ? plates?

827 | 6984 6985 [14.1] | 6980 [14.8] (6982) (6992) 6986 6981 6988
6860
828 | 6980 [13.7] 6860 | 6984 6985 [14.9] 6988 6981

| On plate A6980 ? with D 11158 (= A6984) were found nos.800-828
inclusion.

| The following variables were ? :-

| Nos. 17, 18, 24, 25, 26, 27, 30, 31, 34, 36, 42, 43, 44, 47, 48, ^
52,60 71, 73, 74, ^ 81 86, 87, 100, 104, 115, ^ 117 119, 120,
126, 133, 139, 143, 160, 176, 179, 181, 184, 199, 200, 204, 230, 235,
240, 241, 246, 255, 262, 273, 280, 285, 289, 297, 328, 337, 350, 358,
361, 363, 371, 380, 382, 383, 401, 410, 417, 433, 455, 458, 463, 485,
499, 524, 531, 532, ^ 549 560, 564, 566, ^ 577 579, 589, 596, 600,
602, 603, 607, 617, 625, 631, 638, 639, 643, 647, 658, 659, 672, 694,
695, 730, 751, 759, 763, 764, 798

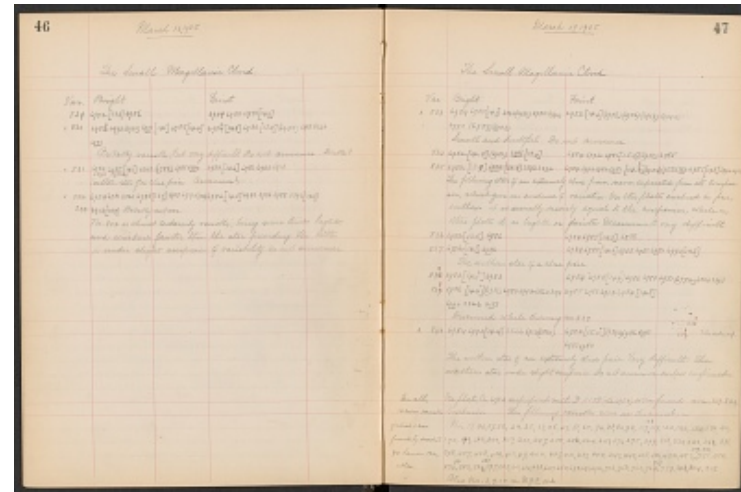
| In all, 29 new variables and 105 known variables

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]46[[preprinted]]
 [[underlined]]March 16, 1905[[underlined]]
 The Small Magellanic Cloud
 Var. | Bright | Faint
 829 | 6982 [13.8] 6986 | 6984 6980 6981 [14.9]
 ^[[x]] 830 | 6984[[strikethrough]]2[[/strikethrough]] 6992
 (6980)[[underlined]]6981[[/underlined]] [14.6] 6985 [14.4] |
 6982[[strikethrough]]4[[/strikethrough]] [14.8] 6986 [15.0] (6988) 6913
 3326
 [[underlined]]6990[[/underlined]]
 ^[[x]] 831 | 6984 6985 [14.1] 6860 (6988) 6981
 [[underlined]]6990[[/underlined]] | 6982 [14.6] 6986 6980 6913
 3393 (3326)
 Southern star of a close pair Announce?
 ^[[x]] 832 | 6984 6981 6860 6985 [13.7] 6913 6990 (3326) | 6982 [14.0]
 6980 6986 6988 3393 [14.3]
 [[strikethrough]]833 | 6913 [13.9] Probably not var. [[/strikethrough]]
 No. 832 is almost certainly variable, being some times brighter and
 sometimes fainter than the star preceding. The latter is under slight
 suspicion of variability. Do not announce.
 [[end page]]
 [[start page]]
 [[preprinted]]47[[preprinted]]
 [[underlined]]March 17, 1905[[underlined]]
 The Small Magellanic Cloud
 Var. | Bright | Faint
 ^[[x]] 833 | 6984 6985 [14.1] 6860 (6981) 6980 (6992) | 6982 [14.6]
 (6988) (6986) (6913) (3393)
 6990 (6987) (6983)
 Small and doubtful Do not announce
 834 | 6982 [14.5] (6980) [[underlined]]6986[[/underlined]] [13.4] | 6984
 6992 6981 [15.0] (6988) 6985
 835 | 6982 [13.9] [[strikethrough]]6986[[/strikethrough]] [[underlined]]6986[[/underlined]] [13.4]
 [[/strikethrough]] 339 [[underlined]]3326[[/underlined]] | 6984 6992 6980
 [[underlined]]6981 [[/underlined]] [14.8] [[strikethrough]]2[[/strikethrough]]
 (6986) (6988) [[underlined]]6860 [[/underlined]] 6985 [14.8] 6990 6913
 The following star of an extremely close pair, new separated from its
 corupran in which gives no evidence of variation. On the plate enslond
 in par. intheses it is usually nearly equal to the companion, while on
 Nine plates it is lighter or fainter measurements very difficult
 836 | 6982 [13.6] 6986 | 6984 6985 [14.8] 6988
 837 | 6982 [14.1] [[underlined]]6986[[/underlined]] | 6984 6985 [14.6]
 6988 6981 [[underlined]]6980[[/underlined]] 6990 [14.8]
 The northern star of a close pair
 839[[strikethrough]]8[[/strikethrough]] | 6982 [14.2?] 6983 | 6984 6985
 [14.9] 6986 6980 6981 (6992) 6860 3393
 838[[strikethrough]]9[[/strikethrough]] | 6986 [14.2 ^[[2]]] (6981) 6980
 6992 6860 3393 | 6985 6988 6913 6984 [14.8]
 [[underlined]]6990[[/underlined]] 3326 [[underlined]]2183[[/underlined]]
 Discovered while observing no. 838
 ^[[x]] 840 | 6984 6990 [14.4] 3326 6913 (6860) | 6982 [15.0?] (3393)
 6986 [[underlined]]6988[[/underlined]]
 [[image]] Film side up
 69816980
 The northern star of an extremely close pair. Very difficult. The
 southern star under slight suspicion. Do not announce unless confirmed

On plate A6982 supupored with D11158 (=A6984) were found nos. 829-
 840, inclusion. The following variables were new discovered: -
 Nos. 17, 26, 27, 35, 24, 25, 37, 45, 47, 51, 60, 74, 81, 86, 93, 117, 118,
 119, 122, 126, 134, 139, 160, 170, 179, 182, 200, 217, 220, 247, 250,



253, 264, 267, 274, 275, 297, 313, 330, 343, 349, 371, 378, 407, 408,
409, 410, 417, 422, 427, 431, 437, 444, 447, 449, 458, 486, 452, 453,
509, 531, 551, 554, 574, 581, 583, 584, 587, 597, 603, 610, 614, 638,
649, 650, 673, 691, 692, 703, 750, 760, 764, 769, 779, 803, 804, 815.
Also Nos. 3, 9, 10 in NgC, 362
In all, 12 new variables of which 1 was found by accident
90 known variables.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]48[[/preprinted]]

[[underlined]]March 12, 1905[[/underlined]]

The Small Magellanic Cloud

Var. | Bright | Faint

841 | 6986 [14.2] 6992 6980 | 6984 (6860) 6982 [14.9] 6988 6981
^[[x]]842 | 6986 [14.8] | 6984 6980 6981 [15.3?] 6988 6992 6982 6860
6990 6913 3326 6987

This star appears to be | 6987 6983 2187
really right on A6986. Image good. Not to be announced
843 | 6986 [14.4] 6987 6990 6989 6991 | 6984 6860 6982 (6992)6988
[14.9] 6981 6980 6985

844 | 6984 6981 [14.4] 6985 6990 | 6986 [14.7] 6988
[[underlined]]6980[[/underlined]] [14.8]

The southern star of a close pair. Variation well seen, though small.
This star was marked as suspected on A6990.

845 | 6986 [14.5] 6987 3393 | 6984 6988 [15.0] 6982 (6992) 6985
(6981) 6860 3326 6990 6913

Well seen

846 | 6986 [14.5] 6987 (6981) | 6984 6860
[[strikethrough]](6981)[[strikethrough]] 6985 [15.0] 6982 6980 6988
[[underlined]]6990[[/underlined]] [15.1] 3326
847 | 6986 [14.5] 6987 (6982) (6990) | 6984 6860
[[underlined]]6981[[/underlined]] [15.2] 6985 6980
[[underlined]]6988[[/underlined]] 3326 6913

Both these stars show variation well

848 | 6986 [13.7] (6980) 6987 | 6984 (6988) 6982
[1[[strikethrough]]3[[/strikethrough]]4.7] 6981 6990
849 | 6986 [13.9] (6988) | (6984) (6985) 6860 [14.4]
[[underlined]]6981[[/underlined]] [14.8] [[underlined]]6980[[/underlined]]
6982 (6990)
850 | 6986 [14.3] [[underlined]]6982[[/underlined]] | 6984 6988 [14.8]
6992 6980 6981 [14.9]

[[end page]]

[[start page]]

[[preprinted]]49[[/preprinted]]

[[underlined]]March 20, 1905[[/underlined]]

The Small Magellanic Cloud

Var. | Bright | Faint

851 | 6986 [14.5] 6980 (6982) 6987 | 6984 6985 [15.1] 6981 6860 6988
(6990) 3326

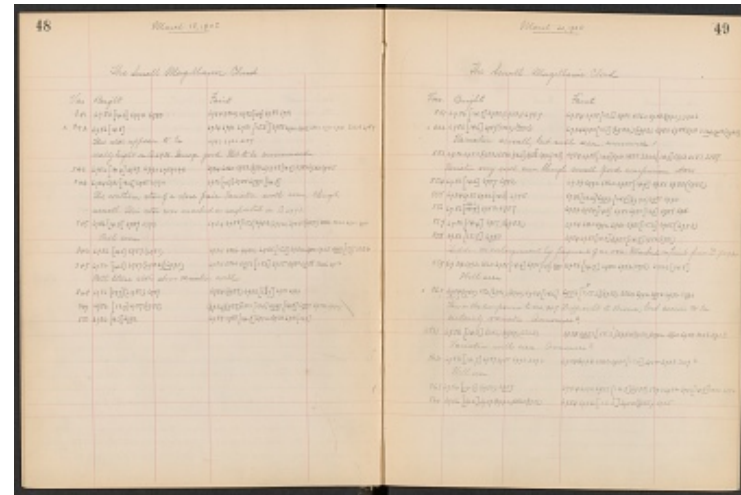
^[[x]] 852 | 6986 [14.6] 6987 (6860) (6990) | 6984 6985 [15.1] (6982)
(6992)6980 6988 6981 [[underlined]]3326[[/underlined]]
[[underlined]]6931[[/underlined]] (6983)

Variation small, but well seen; announce?

853 | 6986 6980 (6982) 6860 [14.3] 6987 6990 [14.3] | 6984 6988 [14.6]
6981 6985 3326 [14.7] 6913 2183 2187

Variation very well seen, though small. Good comparison stars
854 | 6986 [14.2] 6987 6982 | 6984 6990 6860 6985 [14.9] 6981 6980
(6988)

855 | 6984 6988 6982 [14.3] 6985 | 6986 [14.6]
[[underlined]]6992[[/underlined]] [14.9] (6980)
[[underlined]]6981[[/underlined]] 6990



856 | 6986 [~~13.9~~] 14.1] 6982 6987 | 6984
6984 [14.8] 6981 6980 [14.9] 6988 ~~698~~
857 | 6986 [14.4] (6987) (6982) | 6984 6860 6992 6980 6981 [15.2]
6985 (6988)
858 | 6986 [13.7] 6980 | 6984 6988 [14.6]
6985 [14.7] 6982 (6981)
Hidden on enlargement by figure 2 of no. 582. Marked on print from
D7092
859 |

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]50[[/preprinted]]

[[underlined]]March 21, 1905[[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

^[x]865 | 6986 [14.4] 6981 (6987) | 6984 6985 [14.8] (6982) (6988)
6980 6992 3393 6990 3326 (6913)

Variation seems to be real, but very small. Announce?

866 | [[underlined]]6986[[/underlined]] [14.2] 6987 (3393) (6982) | 6984
3326 6990 [14.9] 6981 6980 (6988)

867 | 6986 [13.7] (6988) 6987 | 6984 6982 [14.8] (6980) 6981 6992

On the edge of a faint cluster

^[x]868 | 6860 [14.2] 6981 6986 6913 6987 [Or 6986, 14.1] | 6992
(6980) (6988) (6982) 6985 3393 [14.6] 6990 3326

Variation well seen, though small. Announce?

^[x]869 | [[underlined]]6986[[/underlined]] [14.3] 6987 (6980) (3326) |
6992 (6980) (6988) (6982) 6985 3393 [14.6] 6990 3326

The following star of a close pair. Difficult. Not to be announced.

870 | 6986 [14.4] 6987 6860 6980 | 6984 6982 6981 [15.1] 6988 6990

^[x]871 | 6986 [14.2] 6980 (6988) 6860 (6981) (6982) | 6984 6990
[14.6] 6985 3393

6987 6913

Small, though probably real. Not to be announced.

872 | 6984 (6980) 6985 [14.5] (6990) | 6986 [15.2]

[[underlined]]6988[[/underlined]] [[underlined]]6860[[/underlined]] 6981
6982 3393

^[x]873 | 6984 6981 6913 [13.8] (6990) 6985 | 6986

[14. ~~4~~]5 6982 (6988) 6980

The preceding star of an extremely close pair. The companion is
suspected of being bright on A69413. On A3393 these appear to be also
a close companion ~~following~~ preceding
the variable. Difficult. Announce?

874 | 6986 [14.3] 6980 (6981) 6987 | 6984 (3393) 6985 [14.8] 6990

6988 6860 6992 6982 6985

875 | 6984 6985 [14.6] (6980) (6981) | 6986 [F 15.3 ^{[?]}] 6860 6982
6988 6992

876 | [[underlined]]6986[[/underlined]] [13.9] 6992 (6980) 6988

[[underlined]]6990[[/underlined]] 6987 | 6984 6981 [14.4]

[[underlined]]6982[[/underlined]] 6860 [[underlined]]6985[[/underlined]]

3326 [[underlined]]6913[[/underlined]]

877 | 6934 [[underlined]]6981[[/underlined]] [14.2] 6982 6988 6980 |

6986 [14.8] 6987

878 | 6984 6985 [12.9] 6988 6982 6992 6860 6913 | 6986 [13.5] (6980)

6987 3393

~~879~~ | Algrl type? Brightness uniform on
most plates

879 | 6986 [13.3] 6987 6981 6860 (6982) 6988 6980 | 6984 6990 [13.8]

6985 6992

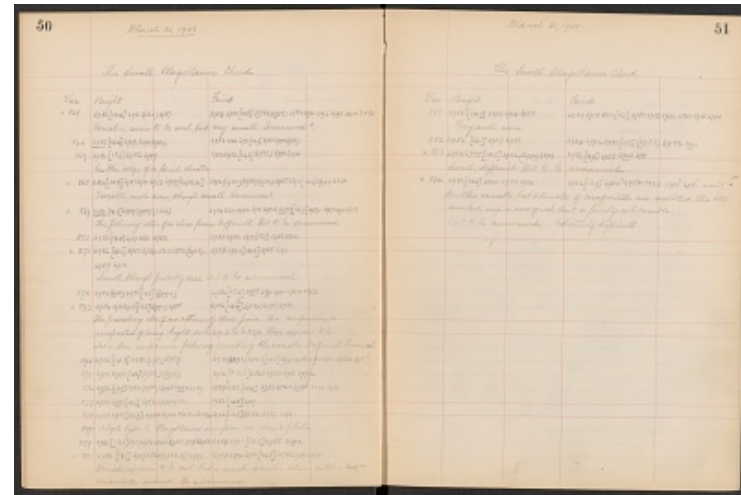
^[x]880 | 6986 [14.1] 6987 6860 (6982) (3393) | 6984 6992 6981 [14.8]
6980 6988 6990

Variation appears to be real, but is much smaller than estimated
magnitudes indicate. Do not announce.

[[end page]]

[[start page]]

[[preprinted]]51[[/preprinted]]



March 21, 1905

The Small Magellanic Cloud

Var | Bright | Faint

881 | 6986 [14.7] 3393 6982 6987 | 6984 6913 6990 [15.1] 6985 6988

6980 6860 6981 6992

Very well seen


882 | 6986 [14.1] 6987 6981 | 6984 6992 6980 [15.0] (6988) 6982

6990

[^]_{[[x]]} 883 | 6984 6955 [14.5] 6982 (6990) 3393 | 6986 [14.9] 6988

6860 6987

Small, difficult. Not to be announced

[^]_{[[x]]} 884 | ~~6981 [13.4]~~ 6860 6988 6984 |
6986 [13.9] 6980 [^]_{[[?]]} 6982 6990 3393 [^]_{[[?]]} 6981 [^]_{[[?]]} 

Doubtless variable, but estimates of magnitude are worthless. The star
marked susp. on marginal chart is probably not variable. Not to be
announced. Extremely difficult.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]52[[/preprinted]]
[[underlined]]March 22, 1905[[/underlined]]
The Small Magellanic Cloud

Var | Bright | Faint

^[x]885 | 6984 6985 [13.1] 6860 6982 6981 6992 6990 |
[[underlined]]6986[[/underlined]] [13.4] (6980)
[[underlined]]6987[[/underlined]] 6988
[Or 6990, 13.0] 3393 6913

Algol Type? Unquestionably half a magnitude fainter than normal on
A6986 + 6987. Announce?

886 | 6986 [14.1] 6982 6987 | 6984 6985 6980 [14.8] 6860 (6988) 6992
6981 6990 6913
887 | 6986 [13.6] 6987 6981 | 6984 6992 (6988) 6982 6860 6980 (6990
[14.4]) [[underlined]]6985[[/underlined]] [14.7]
[[underlined]]3393[[/underlined]]
888 | 6986 [14.0] (6860) 6987 (3393) 6913 | 6984 6985 [14.7] 6990
(6980) 6982 6988 [[underlined]]6981[[/underlined]]
889 | 6986 [14.1] 6987 [[underlined]]6981[[/underlined]] | 6984 (3393)
6990 [14.7]

Preceding of 2 stars. Almost hidden on enlargement, by figure 450
890 | 6984 6985 [13.9] 6982 6860 6980 6988 (6981) | 6986 [14.6] 6992
6987 6992
891 | 6986 [14.0] ^[[?]] | 6987 | 6984 6981 6990 [14.9] 6988 6980
[[~~6982~~]]6982[[/del]] (3393) [[underlined]]6913[[/underlined]]
[[underlined]]6982[[/underlined]] (3393) [[underlined]]6913[[/underlined]]
892 | 6986 [14.1] ^[[?]] | (3393) (6980) 6987 | 6984 6913 6990 [15.0]
6982 (6988) (6981)

On plate A6986, superposed with D11158 (= A6984) were discovered
nos 841 to 892 inclusive.

The following variables were re-discovered:-

10, 18, 19, 25, 26, 34, 36, 37, 42, 44, 52, 54, 71, 73, 74, 99, 117, 123,
124, 126, 128, 132, 133, 139, 143, 144, 146, 147, 150, 156, 160, 162,
165, 168, 170, 176, 179, 181, 182, 184, 194, 199, 200, 202, 204, 207,
217, 212, 229, 235, 238, 246, 247, 258, 255, 256, 264, 274, 282, 300,
303, 304, 329, 336, 362, 377, 378, 379, 391, 406, 407, 408, 409, 410,
418, 422, 426, 431, 437, 438, 443, 447, 452, 463, 471, 474, 481, 494,
509, 519, 531, 536, 539, 544, 546, 549, 551, 570, 572, 581, 582, 583,
584, 589, 594, 59[[~~59~~]]5[[~~59~~]]6, 600, 608, 616,
618, 625, 641, 653, 658, 661, 673, 681, 682, 691, 710, 751, 763, 764,
765, 791, 802, 806, 810, 813, 815, 820, 827, 828, 829, 834, 836, 837

In all, 52 new variables

137 known variables

[[end page]]

[[start page]]

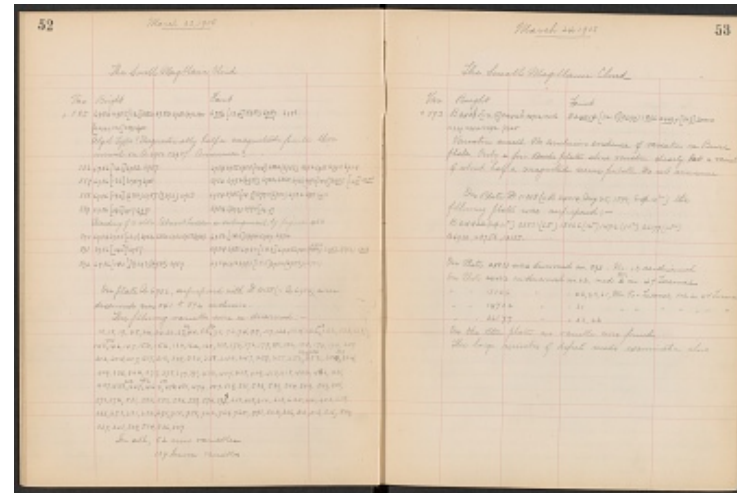
[[preprinted]]53[[/preprinted]]
[[underlined]]March 24, 1905[[/underlined]]
The Small Magellanic Cloud

Var | Bright | Faint

^[x]893 | B28831 [12.0] 24422 ^[[?]] 14702, 10256 |
B2[[underlined]]4014[[/underlined]] [12.5] (26179)
[[underlined]]1066[[/underlined]] [[underlined]]24467[[/underlined]] [12.7]
20850

10367 10264 10292 9625

Variation small. No conclusive evidence of variation in Bruce plates.
Only a few Bache plates show variation clearly, but a variation of about
half a magnitude seems probable. Do not announce.



On Plate D11218 (= B24014, Aug. 25, 1899, .10²) the following plates
were superposed: -
B24422 (Exp. 11²) 28831 (62^m) 18066 (12^m) 14702 (10^m) 26179
(10^m)
B6930, 28750, 12185.

On Plate 28831 was discovered no. 893. No. 13 re-discovered
On Plate 24422 re-discovered no. 62, and
[[~~2~~]] two in 47 Tucanae
" " 18066 " " 22, 23, 61, Mrs. F's- Tucanae, one in 47 Tucanae
" " 14702 " " 31 " " " " " "
" " 26179 " " 23, 62
On the other plates no variables were found.
The large number of defects made examination slow

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 54 [[/preprinted]] March 24, 1905

The Small Magellanic Cloud

Var | Bright | Faint

894 | 3393 [14.7] 6981 | 3326 6990 [15.1] 6984 [15.2] 6986 6988 6980
6860 6982

Very well seen

895 | 3393 [14.5] 6913 6980 [14.2] | 3326 6982 [14.9] 6860 6990

896 | 3326 6982 6913 [On 6982 13.9] | 3393 698~~2~~ 2
~~6~~ | 6~~8~~ 8 ~~60~~ [14.5] 6980
6984 [14.6] 6982 6988 6990

897 | 3326 ~~6982~~ 6982 [14.16] 6913 6981 ~~6982~~
(6860) 6990 [14.7] 6988 3393 [15.
~~2~~ | ~~3~~ 6982
~~6981~~ (6986) 6984 6980

Well seen. Range larger than figures indicate.

898 | 3326 [6860] 6984 [14.7] (6981) (6982) 6985 3393 [15.2] 6988
6980 6990 6986

Estimate difficult, near edge. Range at least a magnitude

900 | 3326 6982 [13.5 ^ [2]] (6981) (6986) 3393 [14.5 ^ [2]] 6990 6913
~~698~~

[[End Page]]
[[Start Page]]

March 25, 1905 [[preprinted]] 55
[[/preprinted]]

The Small Magellanic Cloud

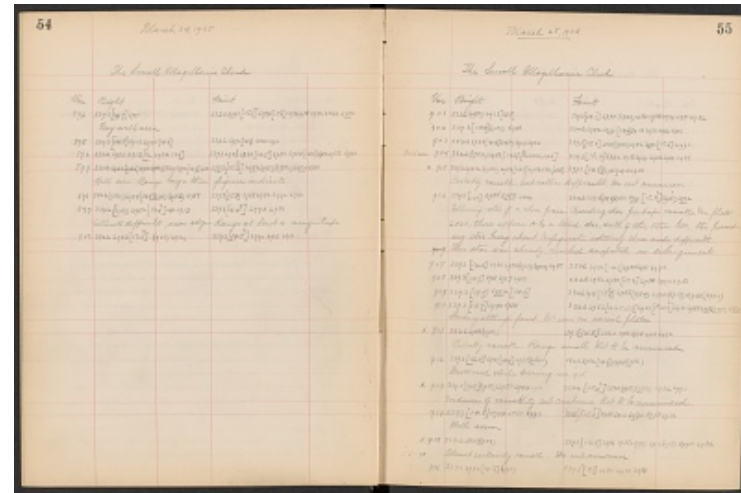
Var | Bright | Faint

901 | 3326 (6980) 6913 [14.3] 3393 [15.1] 6990 (6988) 6860 6986 6984
6981 6982

902 | 3393 [14.4] (6981) 6988 3326 6982 6990
6913 6913 6980 6984 6986

903 | 3326 6984 [14.4] (6980) 6913 6982 3393 [15.0] 6860 (6988) 6986
6981 6984 [15.2] 6990

Well seen 904 | 3326 (6982) 6986 [14.8] [On 3326, 14.6] 3393 [15.2]




6990 6981 6913 6980 6984 6988

x 905 | 3393 6982 (6980) 6984 [14.5] 6986 6860 [14.4] 6990 [14.8]
(6981) 6913 6988

Probably variable, but rather difficult. Do not announce.

906 | 3393 [14.6] 6985 6988 6860 3326
6990 (6984) 6980 6913 [15.2 ^ 6981]
^ 6982


Following star of a close pair. Preceding star perhaps variable. On plate 6860, there appears K by a third star, south of the stars too, the paired  extremely close and difficult. ~~907~~ This star was already marked suspected on enlargement.

907 | 3393 [14.2] 6988 6984 (6913) (6982) 6985 3326 6986 [14.7] 6980
6981 6990

908 | 3393 [14.7] 6981 6913 6988 3326 6982 6980 [15.2] 6984 6990
6956

909 | 3393 [14.7] 6982 [14.6] 3326 6988 [15.
~~8~~ 1 | 6988 (6984) 6980 (6913) 6981
(6990)

910 | 3393 [14.9] 6980 6984 3326 6982 [n.s. 15.3] 6981
[F15.3 ^ 6913 6988 6986 (6990)
6860

Striking attempt faint. Not see on  plates

x 911 | 3326 6988 (6981) 3393 [14.8] 6860 6986 6984 6913 6982

Probably variable. Range small. Not to be announced.

912 | 3393 [14.5] 6981 [14.4] (6860) 3326 6982 [14.9] 6990 (6986)

Discovered while observing no. 911

x 913 | 3393 [14.8] (6986) 6980 6984 6913 3326 [15.4 ^ 6981] 6860
(6988) (6981) 6982 6990

Evidence of variability not conclusive. Not to be announced.

914 | 3393 [14.8] 6984 6860 6990 3326 [F15.4 ^ 6981] 6913
6980 6988 6986

Well seen.

x 915 | 3326 6860 (6984) 3393 [15.3] 6986 6988 6980 6913 (6981) 6990

6982

915 Almost certainly variable. Do not announce.

916 | 3326 6982 [14.3] (6990) 3393 [15.0] 6981 6913 6984

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 56 [[/preprinted]]

March 25, 1905

The Small Magellanic Cloud

Var. | Bright | Faint
x917 | 3326 6988 [14.8] 6986 | 3393[15.1]6990 6982 6860
Probably variable, but too faint for good observation. Not to be
announced
918 | 3326 6860 6986[14.2] | 3393 [15.0](6988) 6980

[[end page]]

[[next page]]

57

[[underline]] March 27, 1905 [[/underline]]

The Small Magellanic Cloud

Var | Bright | Faint

x919 | 3393 [14.7] 6860 [14.6] | 3326 6986 [14.9] 6988 6980 6913
6981 6984 6982

Variation appears to be real, though small. Do not announce.

920 | 3393 [14.8] (6984)(6981) | 3326 [15.4?] (6982) (6913 6980 6988
6986

921 | 3393 [14.8] (6986) (6988) | 3326 (6860) 6980 [15.2] (6981) 6984
(6990) (6982)

Very well seen

922 | 3326 (6984) (6981) (6990)[On 3326 14.7] | 3393 [15.1] 6982 6913
6980 6988 6986 6860

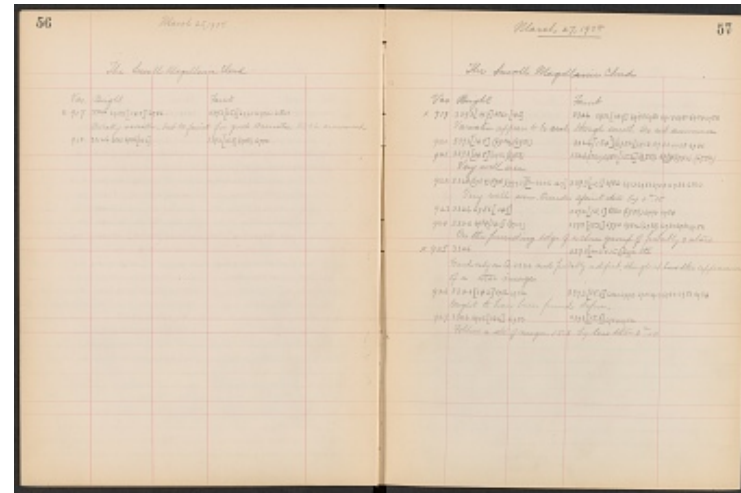
Very well seen. Precedes 2 faint starts by 0^m.15

923 | 3326 6986 [14.5] | 3393 [15.1] 6860 (6988) 6980 6981 6986

On the preceding edge of a close group of probably 3 stars.

x925 | 3326 | 3393 [n.s? < 15.3] 6990 etc.

Found only on A 3326 and probably a defect, though it has the
appearance of a star image.



926 | 3326 [14.2] 6986 6982 | 3393 [15.0] 6880 6990 6981 6913 6980
6988 6984

Ought to have been found before.

927 | 3326 6988 [14.6] 6980 | 3393 [15.3] 6984 6982

Follows a star of magn. 15.3 by less than $0^m.10$

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

In all, 40 new variables were found

99 known variables, one of which is catalogued.

[[end page]]
[[start page]]

[[preprinted]]59[[/preprinted]]

[[underlined]] March 29, 1905 [[/underlined]]

The Small Magellanic Cloud

Var | Bright | Faint

934 |
33[[strikethrough]]63[[strikethrough]]266990[13.8?][[underlined]]3393[[un-
derlined]]698469866988 | 698168606980[14.6]
Preceding a star of magn. 14.8(?) or 15. Uncertain as to exact range,
or account of measures to edge. Probably fully a magnitude.

935 | 33263393[13.8]6988 | 6981[15.2](6980)

^[[x]] 936 | 33266913(6860)(6990)(Or 3326, 14.7) |
6981[15.0]339369[[underlined]]8[[underlined]]26988698069866984

[[strike through]] Difficult [[strike through]]Faint. Probably variable, but
not to be announced.

^[[x]] 937 | 3326[14.8](6984)3393 |
6981[15.2]69826988(6913)69806986686069802150

Difficult. Probably variable but not to be announced

938 | 3326[14.6]6860(?)698269886913[[underlined]] 6986
[[underlined]] | 6981[15.1]69903393[[strike through]] (6988)) [[strike
through]]6984

939 | 3326[13.9]6990 | 6981[14.7](3393)6860

940 | 33266986[14.4](6987) |
6981[14.9]6988686033936990698469806913(6982)

941 | 6981[14.6]6913 | 33263393[15.1][[underlined]] 6860
[[underlined]] (6988)69906982

942 | 3326[14.4](6986) |
6981[14.9][[underlined]]6988[[underlined]][[15.1]68603393(6990)6982[[u-
nderlined]]6913[[underlined]]69806984

Probably a close pair of which the variable is the preceding star

943 | 6981[14.8](3393)6990[14.6] | 33266860[15.2]6988

944 | 6981[14.3]68603393 | 332669906988[14.7](6986)

Well seen, though small. Already marked susp. on enlargement

^[[x]] 945 | 3326[14.8] |
6981[15.2]339368606988699069866980691369826985

^[[x]] 946 | 3326[14.8] |
6981[15.3](6988)686033936990691369806986(6984)2150

See remark on no. 945

947 | 6981[14.8]339369886990(6986) | 33[[strike through]] 93 [[strike through]] 266860[15.2]69826984

Well seen

^[[x]] 948 | 3326 Bright |
6981^[[2152]][14.8]699033936988[[underlined]] 6860 [[underlined]]
[14.9][[underlined]] 6982 [[underlined]] 6984698669136980

949 | 33263393[14.7]6988 | 6981[15.3]6990686069826948[[strike through]] 6913 [[strike through]]

Image of no. 948 possibly defective on A3326. Do not announce

950 | 3326[14.8]69806986 | 6981[15.3]6990,3393686069886913

Well seen. Almost hidden on enlargement by figure 213

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]60[[/preprinted]]
[[underlined]]March 30, 1905[[/underlined]]
The Small Magellanic Cloud

Var | Bright | Faint

951 | 3326 6990 [14.3] 6980 [[underlined]]6986[[/underlined]][[14.1] |
6981 [14.7] 3393 6988 (6860) 6913
952 | 3326 6990 [14.5] (6980) | 6981 [15.2] 3393 6988 6860 6913
(6986)
953 | 3326 (3393) 6990 [14.6] | 6981 [15.2] (6860) 6988 6980 6986
954 | 3326 6990 [14.6] 6989 (6986) (6980) | 6981 [15.0] 6860 6988
3393

Variation small, but apparently real

955 | 6981 [14.8] 6984 (6985) | 3326 [15.4] 6990 3393 6988 6860 6913
6980 [[underlined]]6986[[/underlined]]
^[[x]]956 | 3326 | 6981 [14.9] 6988 3393 6990 6985 6986 6980 6913
6984 9682

Image on A3326 probably definitive. Do not announce | 2150 2183
2187

957 | 3326 6982 [14.6] (6988) 6983 | 6981 [15.2] 6990 6860 3393 6984

The following and northern star of a pair

958 | 6981 [14.5] (6986) (6982) | 3326 [14.9] 3393 [15.0] 6988 6560
6990 6980 6913 6984

959 | ~~6981~~ ~~3326~~ [6982 (6980) (3393)
6988 [14.5] | ~~3326~~ ~~6981~~ [15.1] 6984
6913 6986

960 | 3326 3393 [14.8] 6988 6860 6990 6980 6913 | 6981 [15.2] 2150
6984 6983 9682 (6992) 2187

Apparently of the Algvt Type.

961 | 3326 6990 [14.4] 6988 6982 | 6981 [15.0] 3393 6860 6984

Makes a with a pair of 14th magn. stars

^[[x]]962 | 3326 6990 [14.6] 6980 | 6981 [14.8] 3393 6980

The star was susp. on A3393/ Fluctuations, if real, are slight. Do not
announce

^[[x]]963 | 3326 6986 6990 [14.6] [[underlined]]6982[[/underlined]] | 6981
[15.0] (6988) 3393

Difficult. Do not announce

964 | 6981 [13.6] 6982 6988 6984 6913 (6986) | 3326 (6980) 3393
[14.4] 2183

965 | 3326 6984 [13. ~~7~~] ~~6~~ 6986 6985 |
6981 [14. ~~7~~] ~~5~~ 6990 3393 6982 6913
6980

Follows a 15 magnitude star. Less conspicuous than estimates
indicate

966 | 3326 6985 [14.2] 6984 6982 | 6981 [14.9] 6986 6913 (6988)

Small

967 | 3326 [14.5] (6990) 6860 (6986) | 6981 3393 [15.1] 6982 6984
6988

[[end page]]

[[start page]]

[[preprinted]]61[[/preprinted]]

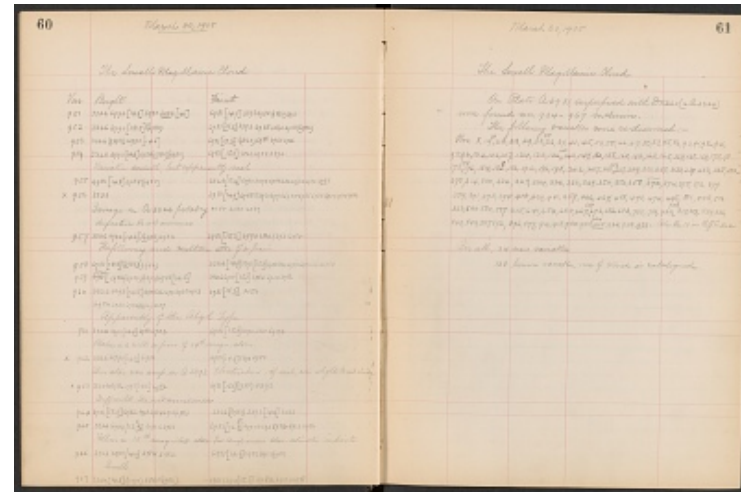
March 30, 1905

The Small Magellanic Cloud

On Plate A6981, supupored with D11220 (=A3326) were found nos.
934-967 inclusion.

The following variables were re-discovered:-

Nos. 8, 19, 21, 22, 23, 29, 33, 35, 36, 37, 41, 45, 50, 55, 66, 67, 80, 83,
85, 86, 90, 91, 92, 94, 95, 96, 104, 106, 107, 124, 132, 136, 140, 143,
147, 150, 155, 160, 162, 163, 165, 167, 168, 169, 170, 171, 173, 174,



176, 184, 183, 186, 192, 196, 198, 202, 207, 210, 216, 217, 229, 231,
237, 238, 239, 253, 268, 282, 275, 314, 320, 322, 323, 324, 326, 330,
349, 352, 356, 358, ~~372~~ [^][[mh var.]].
374, 375, 376, 379, 389, 391, 393, 394, 410, 427, 441, 459, 466, 467,
468, 470, 474, 495, 501, 505, 506, 553, 560, 580, 587, 615, 641, 654,
665, 667, 668, 672, 682, 683, 710, 716, 723, 758, 817, 819, 829, 836,
840, 843, 857, 872, 896, 897, 916, 918, 920, 923, 924,
925, 926, 928,
930. Also, No. 10 in NgC 362

In all, 34 new variables
138 known variables, one of which is cataloged.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 62 [[/preprinted]] March 31, 1905

The Small Magellanic Cloud

Var | Bright | Faint

968| 3393[14.6] 6980 6988 6913 6984 6860 | 6981 [14.8] 6986 6990

| The southern star of a close pair ~~of which~~

969| 6990 [14.6] (69 ~~13~~) ~~80~~ 6984 33 ~~26~~ | 3326 [15.1] 6860 6981 6986 6982 1691 36988

| Forms a close pair with no. 968, Extremely difficult. No as long been suspected, though not recorded.

59| 6981 [12.9] (6986) 6988
| 3393 [13.7] 6860
61 | B10256, 10292, 10367 | B5725, 20638, 20645, 24467

| See Bk VIII fig. 90-95./ Strikingly variable

82| 3393 [14.4] 3326 [14.2] | 6981 [14.8] 6984 6913
6980 6988 6986 6860(6990)

| Well seen
89| Well seen - Announce

127| In a faint cluster. Evidence of variability not absolutely conclusive.
Although very strong.

[[End Page]]
[[Start Page]]

April 1, 1905 [[preprinted]] 63 [[/preprinted]]

The Small Magellanic Cloud

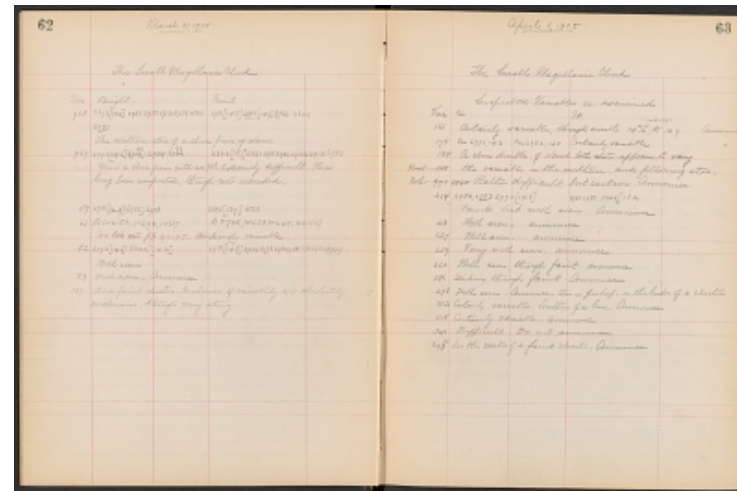
Suspected Variables re-examined

Var | Br | Ft

161| Certainly variable, though small 14. ~~4~~
~~^ [m] ^ [4]~~ to 14.9 ^{^ [on A6990]} Announce

175| On 6990, 14.3 | On 6982, 14.8 | Certainly variable

185| A close double, ~~of which both stars appear to vary~~



[[Pruid?]] 185 ~~[[/strikethrough]]~~ | the variable is the northern and following star.

~~[[strikethrough]]~~ Foll.970 | 6860 ~~[[/strikethrough]]~~ Rather difficult, but certain. Announce.

214 | 6982, 6983 6990 [14.8] | 6986 6988
3326 [15.2

| Faint but well seen Announce

218| Well seen. Announce

227| Well seen. Announce

259| Very well seen. Announce

260| Well seen though faint. announce

296| Striking, though faint. Announce

298| Well seen. Announce. This is perhaps on the border of a cluster

302| Certainly Variable. Southern of line. Announce

315| Certainly variable. Southern of a line. Announce

341| Difficult. Do not announce

34 ~~[[strikethrough]]~~ 3 ~~[[/strikethrough]]~~ 2 | In the center of a faint cluster.
Announce

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 64 [[/preprinted]] April 3, 1905

The Small Magellanic Cloud

Suspected Variables re-examined

395 Almost certainly variable, but from images. Do not announce

396 " " " " " " " " [[ditto for Almost certainly variable, but]]

411 | Do not announce

412 | Well seen. announce

413 | Very well seen. announce

434 | Slight, but well seen. announce

440 | Do not announce

448 | Well seen. Announce

461 | Well seen. Announce

487 | Almost certainly variable, but do not announce

497 | Do not announce

557 | Very well seen. Announce

565 | Certainly real, though small. Announce

582 | Well seen, esp. on A3393 and A6986. Announce

620 | Certainly variable. Announce.

652 | Very well seen - Announce.

669 | Well seen. Announce

New Var 970 | Br.6990 [14.4] 3326

69856981 Ft.3393 [14.9] 69866989

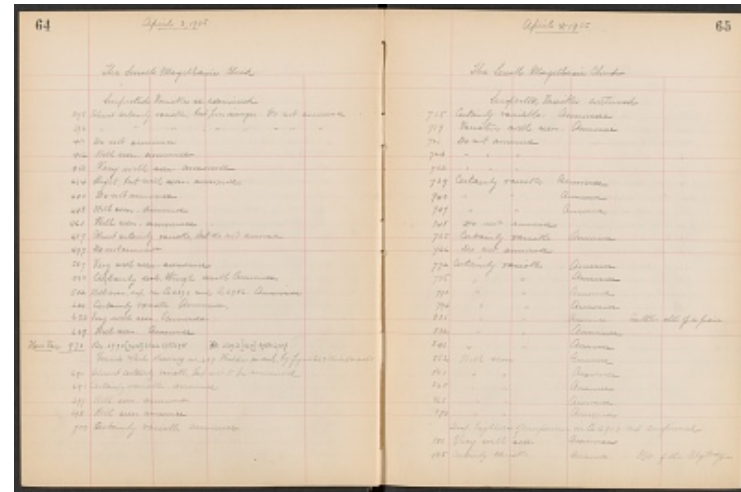
Found while observing no. 669. Hidden on enl. by figure 669. Marked on South Part[?]

690 | Almost certainly variable, but not to be announced

691 | Certainly variable. Announce

697 | Well seen announce

698 | Well seen announce



700 | Certainly variable announce

[[End Page]]
[[Start Page]]

[[underlined]] April 4, 1905 [[/underlined]] [[preprinted]] 65 [[/preprinted]]

The Small Magellanic Cloud

Suspected Variables continued

715 | Certainly variable. Announce

717 | Variation well seen. Announce

720 | Do not announce
724 | " " " [[dittos for Do not announce]]
726 | " " " [[dittos for Do not announce]]

739 | Certainly variable. Announce
740 | " " " [[dittos for Certainly variable]] Announce
747 | " " " [[dittos for Certainly variable]] Announce

748 | Do not announce

765 | Certainly variable. Announce

766 | Do not announce

772 | Certainly variable. Announce
785 | " " " [[dittos for Certainly variable]] Announce
793 | " " " [[dittos for Certainly variable]] Announce
794 | " " " [[dittos for Certainly variable]] Announce
831 | " " " [[dittos for Certainly variable]] Announce Southern star
of a pair
832 | " " " [[dittos for Certainly variable]] Announce
840 | " " " [[dittos for Certainly variable]] Announce

852 | Well seen. Announce
860 | " " " [[dittos for Well seen.]] Announce
865 | " " " [[dittos for Well seen.]] Announce
868 | " " " [[dittos for Well seen.]] Announce
873 | " " " [[dittos for Well seen.]] Announce

| Susp. brightness of companion on A6913 not confirmed

880 | Very well seen. Announce

885 | Certainly variable. Announce [[underlined]] Not [[/underlined]] of the
Algol type

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]66[[/preprinted]]

April 4, 1905

The Small Magellanic Cloud
Suspected Variables continued

[[three columns]]

555|Certainly variable. Unusually [[?b.]] on 6981-6913|Announced|

590|Very well seen|Announced|

595|Do not announce|

636|""|[[ditto for Do not announce]]|

637|""|[[ditto for Do not announce]]|

679|Certainly variable|Announce|

801|Do not announce|

812|Do not announce|

830|Well seen southern [?star]] of pair|Announce|

871|Do not announce|

883|Certainly Variable|Announce|

968|These [[?stars]] seem certainly to vary, but are|

969|extremely difficult to obsrve.|Do not announce at present|

[[end page]]

[[start page]]

[[preprinted]]67[[/preprinted]]

The Small Magellanic Cloud.

Estimate of Numbers of ~~Variables~~ Stars

In each of the four corners of the plate (A3393) stars more counted in
ten square millimetres [^][[about 1[[degree symbol]].5 from edge of plate]].

In the s. [[?p.]] corner, 5 stars - or 0.5 to the m

[[three column table]]

[[?s]]f 4 | 0.4|

nf | 9 | 0.9|

np | 3 | 0.3|

[[/three column table]]

Mean 0.4 star to a square millimetre.

[[?]]

In each corner, about two degrees from edge of plate

In sp. corner, 2 stars or 2.2 to the mm

sf 20 2.0

nf 9 0.9

np 6 0.6

Mean, ~~[[?s]]~~ 5.7 ~~[[?s]]~~ [^][[1.2]] stars to a square
millimetre

In each corner, about 2°.5 from edge of plate

sp 50 5.0

sf 35 3.5

nf 48 4.8

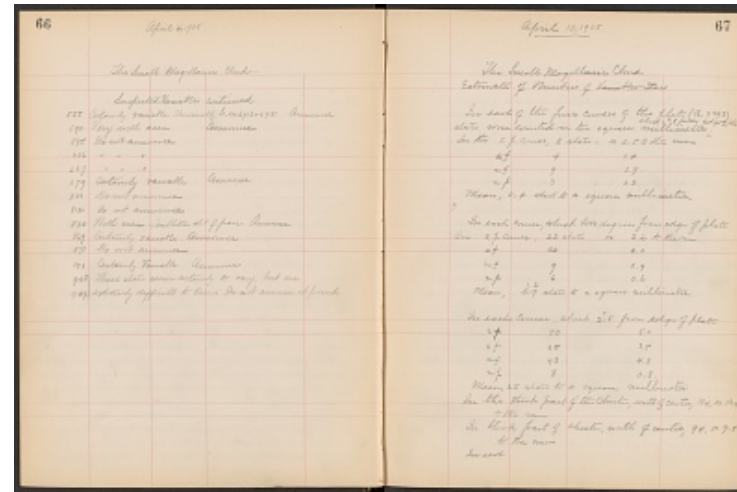
np 8. 0.8

Mean, 3.5 stars to a square millimetre

In the thick part of the cluster, south of centre, 134, or 13.4 to the mm

In thick part of cluster north of centre, 94, or 9.4 to the mm

~~[[?s]]~~ In each ~~[[?s]]~~



[[preprinted]] 68 [[/preprinted]] April 10, 1905

The Small Magellanic Cloud

Count of stars cont.

| In each corner, about $1^{\circ}.0$ from edge of plate.

| In sp corner 4 stars, 12 0. ~~3~~ ~~4~~ to the oq. mm.

| sf | 3 | 0.3
| nf | 3 | 0.3
| np | 4 | 0.4

| Mean, 0.4 stars to a square millimeter

| In middle of each side, about $1^{\circ}.0$ from edge

n | 8 | 0.8
p | 6 | 0.6
s | 14 | 1.4
f | 7 | 0.7

| Mean, 0.9 stars to a square millimeter

| In the middle of each side, about $1^{\circ}.5$ from edge

| n | 11 | 1.1
| p | 14 | 1.4
| s | 39 | 3.9
| f | 10 | 1.0

| Mean, 1.8 to a square millimeter

[[End Page]]
[[Start Page]]

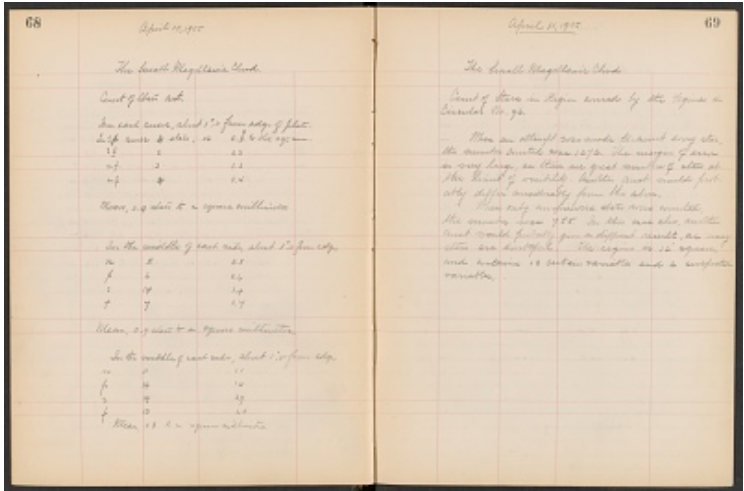
[[underlined]] April 11, 1905 [[/underlined]] [[preprinted]] 69 [[/preprinted]]

The Small Magellanic Cloud

| Count of stars in region covered by the figures in Circular No. 96.

| When an attempt was made to count every star, the number counted was 1272. The margin of error is very large, as there are great numbers of stars at the limit of visibility. Another count would probably differ considerably from the ~~[[abn?]]~~.

| When only ~~[[?]]~~ stars were counted, the number was 755. In this case also, another count would probably give a different result, as many stars



are doubtful. The region is 12' square, and contains 13 certain
?variables and 2 suspected variables,

[[End Page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 70 [[/preprinted]] April 21, 1905

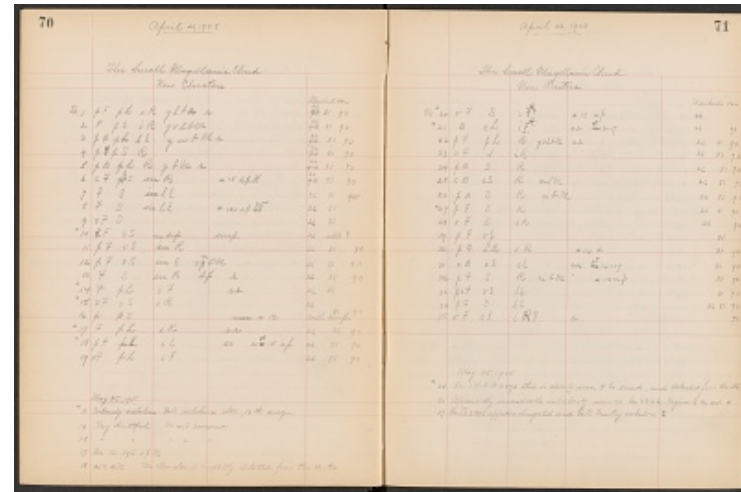
The Small Magellanic Cloud
New Clusters

| Marked on
No. 1 | pF pL iR gIbM r | ~~93~~ 26 81 90
2 | F pS iR gIbM | ~~93~~ 26 81 90
3 | p B ph IE g m b M r | ~~93~~ 26 81 90
4 | p t p S R | ~~93~~ 26 81 90
5 | pB pL R g f In r | ~~93~~ 26 81 90
6 | c7 | ~~p~~ cs in R *15spM |
| ~~93~~ 26 81 90
7 | 7 S | ~~in~~ IE | 26 81
| ~~90~~
8 | 7 S in LE *12 sp | ~~40~~ 25" | 26 81
9 | v7 S | 26 81
^[[*]] 10 | cF vS m dif surp. | 26 star 2
11 | p7 vS irr R | 26 81 90
12 | p7 vS irr E | ~~g~~ m BM | 26 81 90
13 | 7 S irr R b f r | 26 81 90
^[[*]] 14 | 7 pL iR rr | 26 81
^[[*]] 15 | v7 vS iR | 26
16 | | ~~p~~ pS nuc. * 12 | 81 90 with conf.
^[[*]] 17 | 7 pL iR rr | 26 81 90
^[[*]] 18 | p7 pL iE rr 2 | ~~t~~ st 15 sf | 26 81
90
19 | v7 pL i7 | 26 81 90
[[underlined]] May 25, 1905
^[[*]] 10 | Certainly nebulous. Prot. nebulous star, 16th magn.
14 | Very doubtful Do not announce
15 | " " "
17 | Var No. 396 sp M
18 | *15 sM. The other star is completely dilacted from the cluster
[[end page]]
[[start page]]

[[preprinted]] 71 [[/preprinted]] April 26, 1905

The Small Magellanic Cloud
New Clusters

| Marked on
No. ^[[x]] 20 | v7 S | ~~7~~ R * 13 sp | 26
^[[x]] 21 | B cL i | ~~7~~ R rr
| ~~xx~~ 12-17 | 26 90
22 | p7 pL R gvLfM rr | 26 81 90
23 | v7 S iR | 26 81 90
24 | pB S R | 26 81 90
25 | cB cS R mfM | 26 81 90
26 | pB S R mbM | 26 81 90
^[[x]] 27 | p7 S R | 26 81 90
28 | v7 S iR | 26 90
29 | p7 vS | 91
30 | p7 | ~~iR~~ S iR *14s | 81 90
31 | cB cS iE rr | ~~xx~~ st 14-17 | 81 90
32 | p7 S R mfM * 13 mf | 81 90
33 | | ~~p~~ c7 vS IE | 81 90
34 | p7 S IE | 26 81 90



35 | v7 cS iR7 r | 90

May 25, 1905

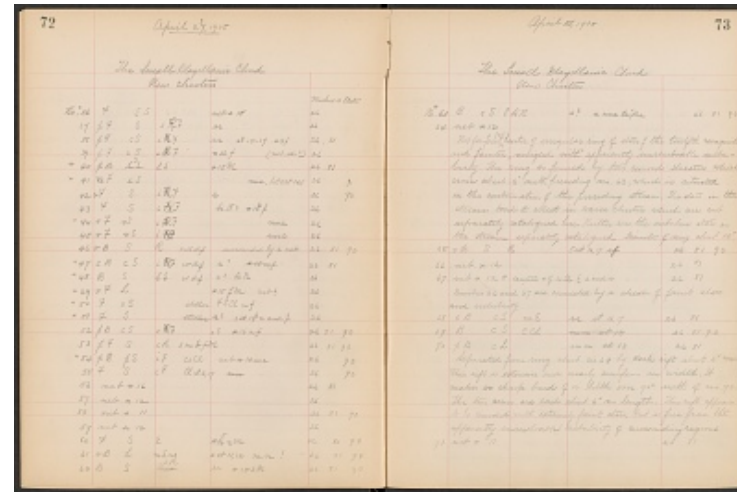
^[[x]] 20 | On Plate A3393 this is clearly seen to be turned and detached from the star

21 | Apparently unobservable nebularity seen on A3326. Figure E n and s

27 | On A3393 appears elongated and biN. Possibly nebulous [[image]]
[[end page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]72[[/preprinted]]
 [[underlined]]April 2[[/underlined]]7[[/strickethrough]]8,
 1905[[/underlined]]
 The Small Magellanic Cloud
 New Clusters
 No. | | | | Marked on Plates
 ^[[*]]36 | 7 | ES | | neb* 15 | 26
 37 | p7 | S | i[[/strickethrough]]R[[/strickethrough]]7 | rr | 26
 38 | p7 | cS | i[[/strickethrough]]R[[/strickethrough]]7 | rr st 15-17 *13f | 26,
 31
 39 | p7 | cS | i[[/strickethrough]]R[[/strickethrough]]7 | *12f (neb. stru?) | 26
 ^[[*]]40 | pB | [[/strickethrough]]E[[/strickethrough]] S | IE | *15M | 26 81
 ^[[*]]41 | [[/strickethrough]]v[[/strickethrough]]e7 | eS | |mic. bet2st 16.5 | 26
 [[/strickethrough]]9[[/strickethrough]]
 42 | v7 | S | i[[/strickethrough]]R[[/strickethrough]]7 | r | 26 90
 43 | 7 | S | i[[/strickethrough]]R[[/strickethrough]]7 | biN?
 *1[[/strickethrough]]5[[/strickethrough]]6p | 26
 ^[[*]]44 | v7 | vS | i[[/strickethrough]]R[[/strickethrough]]7 | mic | 26
 45 | v7 | [[/strickethrough]]v[[/strickethrough]]S |
 i[[/strickethrough]]R[[/strickethrough]]7 | mic | 26
 46 | vB | S | R will dif | surrounded by r net. | 26 81 90
 ^[[*]]47 | cB | cS | i[[/strickethrough]]R[[/strickethrough]]7 w dif | r?
 [[/strickethrough]]*15inf[[/strickethrough]] | 26 81
 ^[[*]]48 | B | S | IE with dif | r? biN | 26
 ^[[*]]49 | v7 | L | | *15fM neb? | 26
 ^[[*]]50 | 7 | vS | stellar | 7SCinf | 26
 ^[[*]]51 | 7 | S | [[/strickethrough]]stellar[[/strickethrough]] | r?
 3st1[[/strickethrough]]5[[/strickethrough]]6n and p | 26
 52 | pB | cS | i[[/strickethrough]]R[[/strickethrough]]7 | r? *16mf | 26 81 90
 53 | p7 | S | iR smbfM | | 26 81 90
 ^[[*]]54 | pB | pS | i7 co Cl | neb * 16 mic | 26 90
 55 | 7 | S | i7 Cl st 16, 17 | [[/strickethrough]]mic[[/strickethrough]] | 26 90
 56 | neb * 16 | | | | 26 81
 57 | neb * 12 | | | | 26
 58 | neb * 11 | | | | 26 81 90
 59 | neb * 12 | | | | 26
 60 | 7 | S | E | * 1[[/strickethrough]]5[[/strickethrough]]5 nM | 26 81 90
 61 | vB | L | mEns | 2 st 11, 12 mn! | 26 81 90
 62 | B | S | iR [[/strickethrough]]Mic[[/strickethrough]] | rr * 15 s M | 26 81 90
 [[end page]]
 [[start page]]
 [[preprinted]]73[[/preprinted]]
 April 28, 1905
 The Small Magellanic Cloud
 New Clusters
 No. | | | | Marked on Plates
 ^[[*]]63 | B | cS E | biN | r? n mic triple | 26 81 90
 64 neb * 12
 Not far from (sf) cluster of irregular ring of stars of the twelfth
 magnitude and fainter, mingled with apparently immeasurable
 nebularity. The ring is formed by two curved clusters which cross about
 2' north preceding no. 63, which is situated on the continuation of the
 preceding stream. The stars in three streams tend to collect in coarse
 clusters which are not separately catalogued here. Neither are the
 nebulous stars in the streams separately catalogued. Diameter of ring
 about 10'
 65 | vB | S | R | 5st 16, 17 sf | 26 81 90
 66 | neb. * 12 | | | 26 81
 67 | neb * 12.5 | | central * of co A E e and n | | 26 81
 Numbers 66 and 67 are connected bu a stream of faint stars and
 nebularity



68 | cB | cS | mE | rr st 16, 17 | 26 81
69 | B | cS | CU | ~~m n st 13~~ 26 81 90
70 | pB | cL | | m n st 13 | 26 81
Separated from ring about no. 64 by dark rift about 2' wide. This rift is
extensive and nearly uniform in width. It makes a sharp bend of a little
over 90' north of no. 70. The two areas are each about 6' in length. This
rift appears to be crowded with extremely faint stars, but is free from the
apparently mislabeled nebulosity of surrounding regions
71 | neb * 11 | | | | 26 81

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]74[[/preprinted]]

[[underlined]]April 29, 1905[[/underlined]]

The Small Magellanic Cloud New Clusters

No. | | | | Marked on Plates

72 | pB | pS | cE(ew) | st 16 mn | 26

Best seen on A6980 and plates of comparatively star rep.

^[x]] 73 | pB | pS | E(mf, sp) | 2 st 15, mn | 26

74 | [[image]] 15 s component neb | | | 26 81

75 | B | S | RR | | 26 90

In a curved stream of st 15 and neb.

[[strickethrough]]76[[/strickethrough]]

76 | c7 | vS | R | smbM | | 26 90

77 | neb * 16 In co Cl st 16 and mn | | 26

78 | neb * 16 | | | 26 81

79 | neb * 15 | | | 81

80 | B | cS | iR | mbM | rr | 26 81 90

81 | p7 | cL | i7 | st 15 and neb | 26 81 90

82 | [[strickethrough]]c[[/strickethrough]] Sp7 | cS | parallelogram st 15 and neb | 26 81

Surrounded by a rift marked by the presence of few stars and perhaps no nebulosity. This is a characteristic formation, three or more stars often enclosing a nebulous region, while out H from similar adjacent regions

83 | [[strickethrough]]p[[/strickethrough]] c7 | pL | Oval | rr * 15 sfM | 26 81 90

84 | c7 | vS | R | bit 2 st 16 | 26 81

85 | neb * 11 | | | 26 81

Surrounding nebulosity elliptical, E i and m | 26 81 90

86 | B | pS | i [[strickethrough]]A[[/strickethrough]] 7 | smbM r | 26 90

87 | B | S | iE | surr. by dif neb. | | |

On plate A2183, the object appears mottled, not brown, as if resolvable, but with nebulous patches of considerable size.

[[end page]]

[[start page]]

[[preprinted]]75[[/preprinted]]

April 29, 1905

The Small Magellanic Cloud New Clusters

No. | | | | Marked on Plates

88 | p7 | pS | i7 | st 15 and neb | 26

89 | neb * 16 | | | [[strickethrough]]81[[/strickethrough]]

^[*]] 90 | neb * 15 | | | [26]

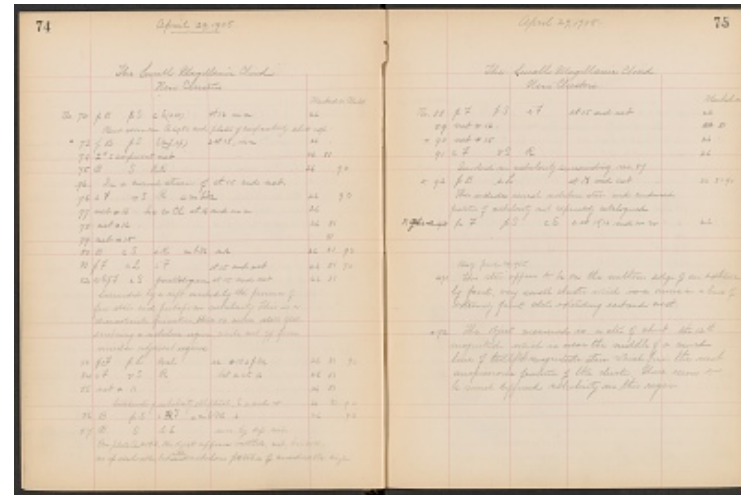
91 | c7 | vS | R | | 26

Involved in nebulosity surrounding no. 87

^[*]] 92 | pB | eL | | st 1 [[strickethrough]]3[[/strickethrough]]2 and neb | 26 81 90

This includes several nebulous stars and condensed patches of nebulosity not separately catalogued

^[N.g. 6248]] [[strickethrough]]93[[/strickethrough]] p7 | pS | cE | 2 st 15, 16 and mn | 26



~~May~~ June 14, 1905

^[*] 90 | This star appears to be on the northern edge of an extremely faint, very small cluster which ~~is a~~ occurs in a line of extremely faint stars extending west.

^[*] 92 | The object measured is a star of about the 12th magnitude which is near the middle of a curved line of twelfth magnitude stars which from the most conspicuous feature of the cluster. There seems to be much diffused nebulosity in this region

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]76[[/preprinted]]

[[underlined]]May 3, 1905[[/underlined]]

The Small Magellanic Cloud
New Clusters

No. | | | | Marked on

93 | neb * 12 | 26

The nebulosity in which this star is involved connects NGC 249 and 261. It is very faint

94 | pB | pL | i7 | 2 st 13 r | 26

A bright part of the general nebulosity, which seems to have condensed about two 13th magn. star. Separated by a rift from no. 92.

95 | neb. * 10 | | | 26 81

~~96 | pB | pS | i7 | at 13 and m n | 26 81~~

~~90~~[[/strikethrough]]

^[[see p. ~~76~~]]103 290 7n 96, on p. 77]]

97 | 7 | vS | R | near several st 13 | 26 81 90

98 | p7 | S | i7 | Cl at 16 | 26 | 81

99 | pB | S | i7 | co Cl st 14 and mn | 26 | 81

^[[p. 90]] ^[[*]] 100 | neb * 14 ~~S | i7 | st 15 and m n | 26 81~~

101 | p7 | S | i7 | st 15 and m n | 81

102 | p7 | pS | iR | r *

103 |

104 |

105 |

106 |

107 |

108 |

109 |

^[[p. 90]] ^[[*]] 110 |

111 |

[[end page]]

[[start page]]

[[preprinted]]77[[/preprinted]]

May 3, 1905

The Small Magellanic Cloud
New Clusters

No. | | | | Marked on

112 |

11~~[[strikethrough]]3~~[[/strikethrough]] 4 |

113 |

^[[p. 90]] ^[[*]] 115 |

^[[p. 90]] ^[[*]] 116 |

117 |

118 |

^[[*]] 119 |

120 |

^[[*]] 121 |

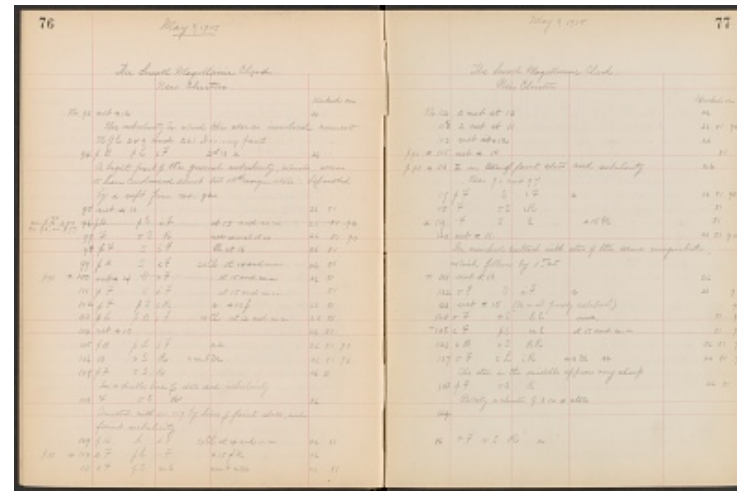
122 |

123 |

124 |

^[[*]] 125 |

126 |



127 |
128 |
[[~~129~~]]
96 |

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]78[[/preprinted]]
[[underlined]]May 4, 1905[[/underlined]]
The Small Magellanic Cloud

New Clusters

No. | | | | Marked on

129 | ee7 | vS | | | 81

130 | pB | cS | R | smbM | 26 81 90

131 | neb * 15 | | | | 26 81 90

Nebularity surrounding star very faint, probably var resolvable. Nearly a minute in diameter. Feudinily to a spiral form susp. Direction whether to catalogue as a nebulous star, or as a nebula with a star in the centre. Interesting.

13[[~~strikethrough~~]]2[[/strikethrough]]3 | v7 | pL | i7 | B mc f M | * 13 S | 81 90

Is the nucleus a * 16?

13[[~~strikethrough~~]]3[[/strikethrough]]4 | e7 | pS | c7 | r | 81

13[[~~strikethrough~~]]4[[/strikethrough]]2 | e7 | pS | pE | Bnuc (*16?) on f edge | 81

135 | p7 | L | c7 | rr | 26 81 90

136 | pB | vS | | | 26

137 | pB | S | | r | 26 81 90

138 | B | S | i7 | r | 26 81 90

139 | v7 | S | cE | | 90

140 | v7 | S | i7 | r | 90

141 | neb * 15 | | | | 81 90

nebularity extreme, probably gaseous. Stellar character of centre not certain.

142 | v13 | S | cE | | 26 81 90

143 | pB | S | | |

144 | p7 | S | R | |

Nos. 143 and 144 were discovered while observing no. 131.

[[end page]]

[[start page]]

[[preprinted]]79[[/preprinted]]

May 4, 1905

The Small Magellanic Cloud

New Clusters

No. | | | | Marked on

145 | v7 | pS | mE | biN? | 81

This may be a pair of double stars. Announce?

146 | v7 | S | i7 | r n terminus of a line of st. | 26 90

147 | cB | pL | R smbM | rr | r | 26 81 90

148 | pB | vS | R | neb [[image]] | 81

149 | pB | vS | R | | 90

[[~~strikethrough~~]]150[[/strikethrough]] | Nos. 148 and 149 may be

nebulous stars, but this is improbable

[[~~strikethrough~~]]150[[/strikethrough]] | Examination of several plates stars

that no. 149 has no trace of a nucleus. No. 148 shows on plate A2183

as a faint, nebulous pair.

150 | 7 | vS | iE | embM | 26 81 90

151 | neb * 16 | | | | 26

152 | neb * 14 | | | | 26 81 90

Stellar character not certain

153 | pB | vS | iE | | [[~~strikethrough~~]]26 81 90[[/strikethrough]]

154 | p7 | pS | cE | *16M *15np | 26 81 90

155 | pB | pS | iR | r st 16.5 | 26 81 90

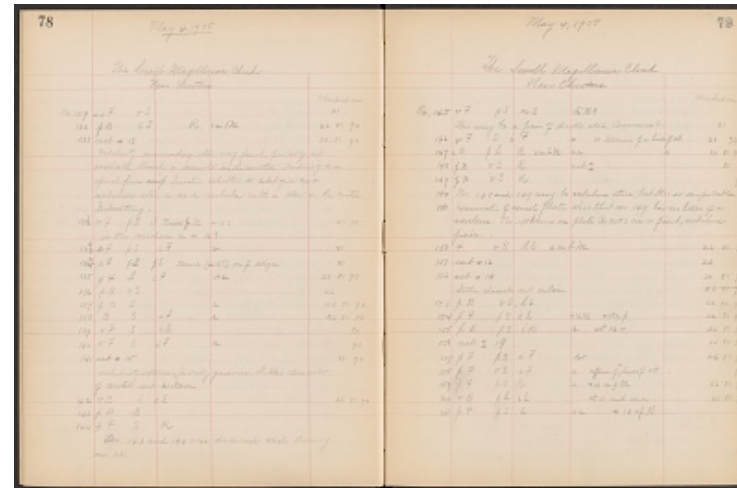
156 | neb [[image]] 1[[~~strikethrough~~]]7[[/strikethrough]]6 | 26 81 90

157 | p7 | pS | i7 | r | 26 81 90

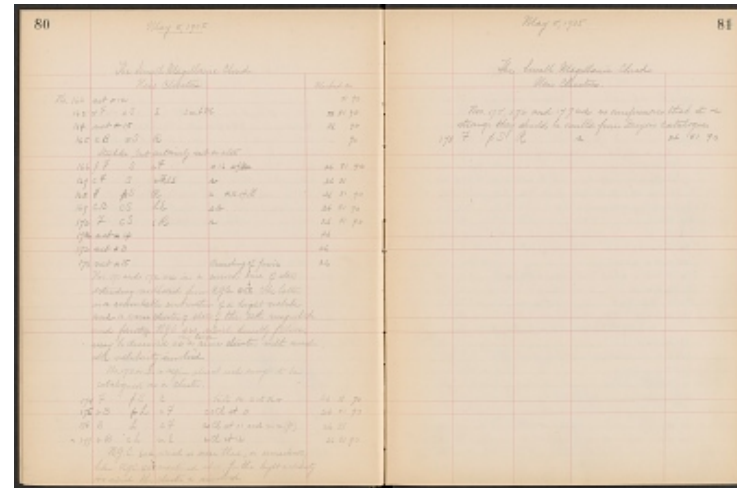
158 | p7 | vS | i7 | r nf term. of 2 lines of st | 90

159 | p7 | pS | R | r *16nfM | 26 81 90

160 | vB | pL | cE | st 11 and min | 26 81 90



[[preprinted]]80[[/preprinted]]
 [[underlined]]May 5, 1905[[/underlined]]
 The Small Magellanic Cloud
 New Clusters
 No. | | | | Marked on
 162 | neb * 12 | | | | 81 90
 163 | v7 | eS | E | SmbM | | [[/strickethrough]]26[[/strickethrough]] 81 90
 164 | neb * 15 | | | | 26 90
 165 | cB | vS | R | | 90
 Starlike, but certainly not a star
 166 | p7 | S | c7 | * 16 sfM | 26 81 90
 167 | c7 | S | [[/strickethrough]]c[[/strickethrough]]7IE | r | 26 81
 168 | 7 | pS | R | r * 16 fM | 26 81 90
 169 | CB | CS | IE | rr | 26 81 90
 170 | 7 | CS | iR | r | 26 81 90
 17[[/strickethrough]]2[[/strickethrough]]1 | neb * 14 | | | | 26
 172 | neb * 11 | | | | 26
 173 | neb * 15 | | | | Preceding of pair | 26
 Nos. 171 and 172 are in a curved line of stars extending northward
 from NgC 45[[/strickethrough]]8[[/strickethrough]]6. The latter is a
 remarkable combination of a bright nebula and a coarse cluster of stars
 of the 12th magnitude and fainter NgC 460, which directly follows. May
 be described as a large coarse cluster with considerable nebulosity
 involved.
 No. 173 is in a region almost rich enough to be categorized as a
 cluster.
 174 | 7 | pS | E | biN or 2st16.5 | 26 81 90
 175 | vB | pL | i7 | co Cl st 11 | 26 81 90
 176 | B | L | i7 | co Cl st 11 and m n (ft) | 26 81
 ^[[x]] 177 | vB | cL | mE | co Cl st 12 | 26 81 90
 N.g.C. 602, which is near these, is remarkable, like NGC
 45[[/strickethrough]]5[[/strickethrough]]6 mentioned above, for the bright
 nebulosity in which the cluster is involved.
 [[end page]]
 [[start page]]
 [[preprinted]]81[[/preprinted]]
 May 5, 1905
 The Small Magellanic Cloud
 New Clusters.
 Nos. 175, 176 and 177 are so conspicuous that it is strange they should
 be omitted from Dreyer's catalogue.
 178 | 7 | pS | R | r | 26 81 90



Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]]82[[/preprinted]]
[[underlined]]May 6, 1905[[/underlined]]
The Small Magellanic Cloud
New Clusters.

179 | c7 | pL | i7 | rrr * 11 fM | 22 81 90
180 | neb*12 | | | | 26 90
182 | neb*12 | | | | 26 81 90

[[underlined]]201[[/underlined]] | B | L | iE | co Cl st 12 |

This cluster was not originally marked on any of the plates, being regarded simply as a crowded region. But it is sufficiently well defined to be catalogued. Nos. 18[[strikethrough]]0[[/strikethrough]]1 and 182 are in this cluster. Many of the other components appear to be slightly nebulous.

181 | neb * 11.5 | | | | 26 81 90
18[[strikethrough]]2[[/strikethrough]] | 3 | B | L | i7 | co Cl st 13 and r neb |
26 81 90

184 | [[strikethrough]]neb * 11[[/strikethrough]] | B | cS | E | rr *
1[[strikethrough]]2[[/strikethrough]] | 2 f. bit separate | 26 81 90

185 | neb * 12 | | | | 26 81 90

186 | 7 | S | i7 | rr *13fM | 26

187 | neb * 12 | | | | 26 81

188 | B | pS | i7 | 5 st 14 and mn | 26

189 | neb * 13 | | | | 26 81

The nebulosity connects with a * 15 0.6 sp

190 | neb * 11 | | | | 26 90

191 | pB | cS | E | rr st 15 | 26 81 90

192 | [[strikethrough]]13[[/strikethrough]] | neb [[image]] 13 | | | |
26 81 90

The two stars are separated by about 0.6, in R.A. They appear to be at the foci of a faint, unresolvable elliptical nebula

19[[strikethrough]]3[[/strikethrough]] | 4 | pB | pS | i7 | co Cl st

1[[strikethrough]]5[[/strikethrough]] | 4 | 26

19[[strikethrough]]4[[/strikethrough]] | 5 | pB | pL | i7 | co Cl st 13 and mn |
26

193 | pB | L | i7 | co Cl st 13 | 26

196 | neb * 11 | | | | 26 81

[[end page]]

[[start page]]

[[preprinted]]83[[/preprinted]]

May 6, 1905.

The Small Magellanic Cloud.

New Clusters

No. | | | |

197 | 4 st 13, 16 and mn | | | | 26 [[strikethrough]]81[[/strikethrough]] | 90

198 | 7 | iS | iE | | | 26 81 90

199 | neb * 15 | | | | 90

200 | neb * 11 | | | | 26 90

201 | See above, following no. 182. | | | |

202 | neb [[image]] 13 | | | | 26

203 | neb [[image]] 12 | | | | 26

204 | vB | pS | iR | r | 26 81 90

205 | pB | pL | i7 | co Cl st 15 + neb. | 26 81 90

206 | B | vS | R | * 13 s | 26 81

207 | neb * 12 | | | | 26 81

208 | p7 | S | i7 | rr | 26 81 90

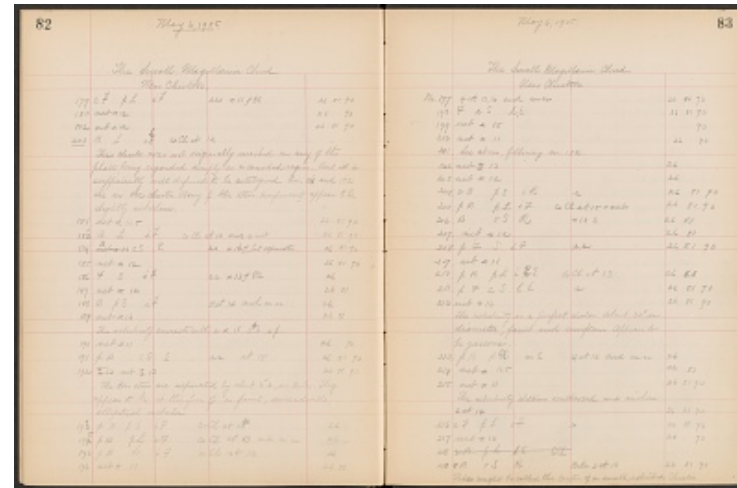
209 | neb * 11 | | | |

210 | pB | pL | i[[strikethrough]]E[[/strikethrough]] | co Cl st 13 | 26 81

211 | p7 | cS | iE | r | 26 81 90

212 | neb * 16 | | | | 26 81 90

The nebulosity is a perfect circle about 30' in diameter, faint and uniform. Appears to be gaseous.



213 | pB | p~~L~~S | mE | 4 st 16 and mn | 26

214 | neb * 11.5 | | | 26 81

215 | neb * 11 | | | 26 81 90

The nebulosity streams southward and revolves

2 st 14

216 | c7 | pL | i7 | r | 26 81 90

217 | neb * 10 | | | 28 90

218 | ~~vB~~ | pL | IE | C Cl

218 | ~~s~~ B | vS | R | Btn. 2 st 13 | 26 81 90

This might be called the center of a small, extended cluster

Project PHaEDRA - Henrietta Swan Leavitt #12

Transcribed and Reviewed by Digital Volunteers

Extracted Sep-06-2022 02:41:59

[[preprinted]]84[[/preprinted]]
[[underlined]]May 9, 1905[[/underlined]]
The Small Magellanic Cloud

New Clusters

No. | | | | Marked on

219 | neb | [[image]] | 12, 14 | | | | 90

220 | pB | cS | i7 | 3 st 15 and mn | 26 81 90

^[[nearly hidden by 07 Fig. 220 on chart]]

221 | cB | cS | iE | * 16 nM? | 26 81 90

It is uncertain whether this is a star ~~of~~ or a nebulous knot.

222 | p~~[[/strickethrough]]~~B~~[[/strickethrough]]~~7 | vS | R | mFM | | 81 90

223 | neb * 12 | | | | 26 90

224 | c7 | vS | E | biN | | 90

225 | neb * 11 | | | | 26 81

226 | 7 | vS | cE | r | 26 ~~[[/strickethrough]]~~81~~[[/strickethrough]]~~

227 | p7 | pS | i7 | co Cl st 16 | 26 81 90

228 | p7 | pS | iR | r * 14 p | 26 81 90

229 | p7 | vS | R | * 16 s | 26

230 | p7 | vS | iE | | 26

231 | p7 | pS | iR | rr | 26 81 90

232 | neb * 11 | | | | 26

233 | neb * 14 | * 14 f | | | 26 81 90

This is probably an exceedingly dim nebulous double with components not far from the fifteenth magnitude.

234 | v7 | iS | R | | 26 81

235 | pY | vS | cE | r | [[image]] | 16 p M | 26 81

236 | pB | cS | i7 | r | thru st 15 | 26

237 | ~~[[/strickethrough]]~~v7 | cS | cE~~[[/strickethrough]]~~

[[image]] neb 16 separated 0'.3 | | | | 26 81 90

238 | neb * 11 | | | | 26 90

239 | 7 | cS | cE | * 15 M | 26 81

240 | neb [[image]] | 12 separated 0'.6 | | | | 26 81 90

241 | p7 | S | i7 | st 15 | 26 81 90

[[end page]]

[[start page]]

[[preprinted]]85[[/preprinted]]

May 9, 1905

The Small Magellanic Cloud

New Clusters

No. | | | |

242 | CB | iS | R | | 81 90

243 | p7 | S | i7 | st 16 | 26 81 90

244 | B | cS | iE | st 15 | 26

245 | pB | S | E | 3 st 15 neb. | 26 81 90

246 | neb * 12.5 | | | | 26

247 | neb * 15 | | | | 26 81 90

Nebularity ~~[[/strickethrough]]~~a~~[[/strickethrough]]~~ circular, probably gaseous. Stellar character of nucleus not certain. Well seen on A2183.

| | | | ~~[[/strickethrough]]~~26 81~~[[/strickethrough]]~~

248 | neb * 10 | | | | 26 81

249 | ~~[[/strickethrough]]~~c~~[[/strickethrough]]~~ B | cS | iR | rr | 26 81 90

250 | neb * 11 | | | | 26 90

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 88 [[/preprinted]] May 12, 1705

The Small Magellanic Cloud
New Clusters

		marked on	
No.	vB cS iR C Cl	st 15 r	[26 71 90]
280	neb*11		81 90
281	neb*11		81 90
282	neb*9		81 92
283	neb*15	r	26 90
284	v 7 vS i R	r	26 81 90
285	neb*12		26 81 90
286	neb*11		81 90
287	neb*15		81 90
288	ee7 pL iR		26
289	v7 vS iR		26
290	pB vS iR		26 81 90
291	neb*16		26 81
292	v7 pL iR	3st 16.5 and neb.	26
293	v7 pS iE	be N?	26 81
This may be a pair of very faint but certainly nebulous stars separated by 0.25			
294	v7 vS iR		26 81
295	pB pS iR	rr	26 81 90
296	v7 vS iR		26 90
297	cB vS iR		26 81 90
298	neb*12		81
299	p7 cS iR		26 81 90

Aug. 23, 1905/[[So?ace]] 122 303| Neb*16 marked while observing
variables. Suspected of variability

[[/underline]] May 24, 1905 [[/underline]]

300|neb*14

301|neb*15

[[/underline]] Aug. 23, 1905 [[/underline]] 302|neb*15 marked while
observing variables

[[end page]]

[[start page]]

[[preprinted]] 89 [[/preprinted]]

[[/underline]] May 24, 1905 [[/underline]]

The Small Magellanic Cloud

Additional remarks new Clusters & Nebulae

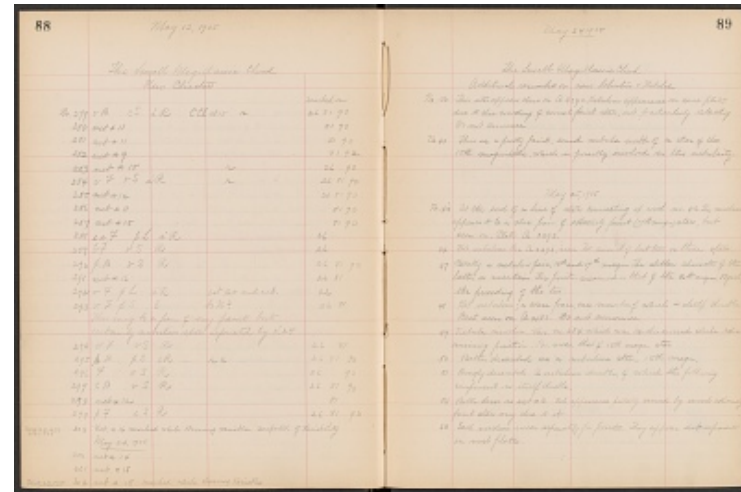
No. 36 This star appears close to A 3393. Nebulous appearance on
some plates due to close crowding of several faint stars; not particularly
interesting. Do not announce.

No. 40 This is a pretty faint, round nebula north of a star of the 15th
magnitude, which is possibly involved in the nebulosity.

May 25, 1905

No. 4 ~~0~~ 1

At the end of a line of stars connecting it with No. 42. The nucleus
appears to be a close pair of extremely faint (17th magn.) stars, best
seen on Plate A 3393.



44 Not nebulous on A 3393, seen to consist of but two to three stars

47 Probably a nebulous pair, 16th and 17th magn. The stellar character of the latter is uncertain. The position measured is that of the 16th magn. object, the preceding of the two.

48 Not nebulous; a close pair, one member of which is itself double. Best seen on A 2183. Do not announce.

49 Nebula involves Var. No. 684 which was re-discovered while examining position. Pos. meas. that of 15th magn. star

50 Better described as a nebulous star, 15th magn.

51 Wrongly described. A nebulous double, of which the following component is itself double.

54 Better disc. as neb *16. Neb. appearance probably caused by extremely faint star very close to it.

63 Each nucleus meas. separately for position. They appear ~~det~~ separate on most plates.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 90 [[/preprinted]]
 [[underlined]] May 26, 1905 [[/underlined]]
 The Small Magellanic Cloud
 Additional remarks on Clustered and Nebulae
 No. 73 The northern star of the two is almost the center and is the point measured North of it is a marked con. deviation almost stellar in character.

100 The nebulosity surrounding this star is very extensive and apparently measurable.

June 16, 1905
 110 This appears to be an isolated region not differing from the general region, but separated from it on all sides by a deep rift. It is [[??]] by a line of faint stars and probably of nebulosity, with no. 111.

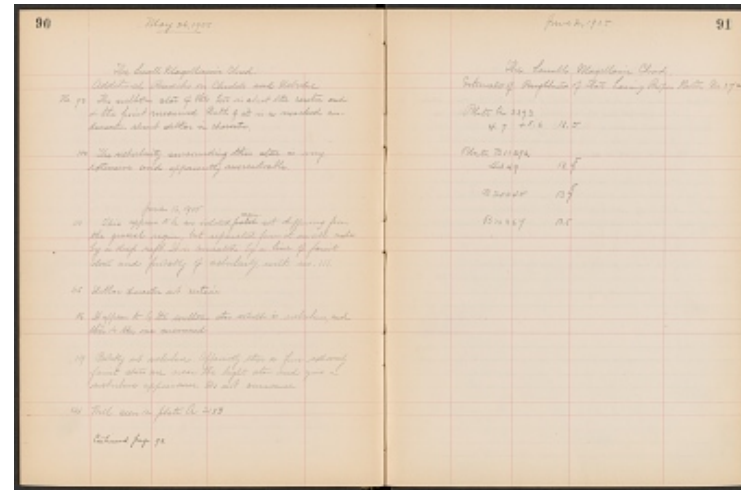
115 Stellar character not certain.
 116 It appears to be the southern star which is nebulous and this is the one measured
 119 Probably not nebulous. Apparently three or four extremely faint stars are near the bright star and give a nebulous appearance. Do not announce.

121 [[??]] seen on plate A 2183

Continued page 92
 [[end page]]
 [[start page]]
 [[preprinted]] 91 [[/preprinted]]
 June 2, 1905
 The Small Magellanic Cloud.
 Estimates of Brightness of Star having Proper [[??]] No. 372

Plate A 3393
 4.9 +8.6 13.5

Plate B10292
~~5.1~~ 4.9 13.5
 B20645 13.5
 B10367 13.5



Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]]94[[preprinted]]
[[underline]]August 17, 1905[[/underline]]
The ~~Large~~ Small Magellanic Cloud. New Variables.

D 7093, A 7016

Square | Var | Bright | Faint | Range

63 | 979 | 7016 6980 ~~6990~~1090 (6984) |

3393 6988 6860 6982 6981

~~6990~~3326 | 0.7

The preceding star of an extremely close pair. On plate 6980 the following component is suspected of being bright also. A difficult object. |

~~0~~

63 | 980 | 3393 6980 6990 6913 |

7016(6984)(6982) | 0.6

64 | 981 | 7016 6990 6988 6984 | 3393 6990

6992 6860 6982 | 0.6

64 | 982 | 7016 (6986) |

3393(6913)6982(6860)69926984698869901. ~~0~~

The following star of a group of 3 within 15" of each other. Hidden on enlargement by figure 6 of No. 662. Marked on print from D 7092. An interesting variable

78 | 983 | 7016(6981) | 3393 6980 6990 6988

6984(6860) 69826913 | 1.0

64 | 984 | 7016 68606992 6980 | 3393 6982(6984)6988

6990 | 0.5

64 | ^x985 | 7016 6984 6980 | 3393 6988 69906981 |

Slight. Do not announce

~~64~~78 | 986 | 7016 6988(6860) 3326 |

3393 6986 6980(6990)(6984) 6981 | 0.5

65 | 987 | 7016(6913)6860 | 339369826984

6988 6990 6980 | 0.8

52 | 988 | 70166981 | 3393 6980 6990 698869846992686069826913 |

1.2

65 | 789 | 33936990 | 701669816988 | 0.8


65 | ^x990 | 70166990(6984)686069823326 |

3393 6988 2150 | 0.5

Do not announce. Usually bright. May not be really faint on A6988

79 | 991 | 7016 6984(6988) | 3393 6986 6980 6860 | 1.0

Hidden by fig. 2 on No. 206. Marked on print from D7092

79 |  992 | 7016(6984)6981 | 3393 6990 6860 6982,88, 13, 80,

86 3326 | 0.7

80 | ^x993 | 7016 69806982 | 3393

6988(6984)(6860)6981 | 0.5

Variation slight. Announce?

[49 Known Var.] | Known Nos. 17, 18, 44, 45, 72, 107, 108, 129, 136, 139, 141, 176, 179, 181, 182, 183, 184, 190, 848, 854, 912, 194, 204, 203, 207, 208, 301, 313, 320, 321, 326, 409, 423, 485, 492, 504, 505, 508, 512, 521, 579, 589, 646, 653, 656, 658, 663, 664, 859

[[end page]]

[[start page]]

[[preprinted]]95[[preprinted]]

[[underline]]August 18, 1905[[/underline]]

The Small Magellanic Cloud. New Variables

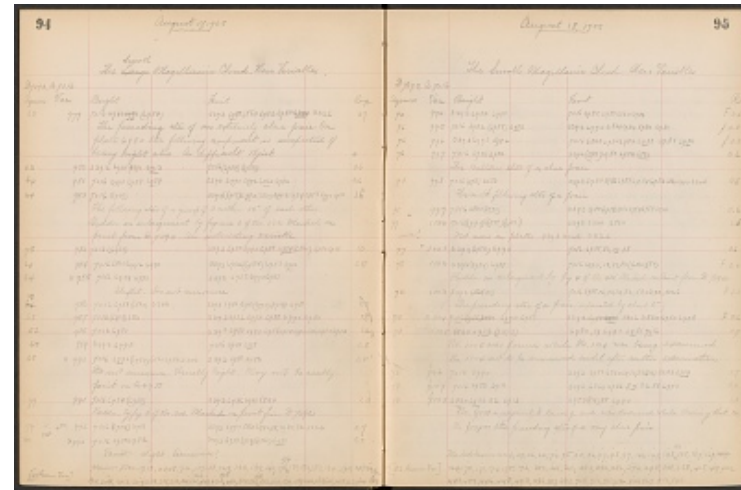
D 7093, A 7016

Square | Var | Bright | Faint | R

90 | 994 | 339369826990 | 701669856988688606984 | F0.6

76 | 995 | 70166982(6988)6986 |

339369906960698469806981 | f0.8



76 | 996 | 339369906982 |
 7016686069846980[[underline]]6988[[/underline]]
 6981[[underline]]6986[[/underline]]f0.8
 76 | 997 | 701669866984 |
 3393(6988)69806982[[underline]]6860[[/underline]] | 0.6
 The northern star of a close pair
 90 | 998 | 7016(6981)2150 |
 339369806986698869846982686069903326 | 0.6
 The north following star of a pair
 91 | 999 | 70166860(6990) | 3393698069866982698464886913 | 0.6
 77 | 1000 | 7016(6990)(6988)(6981) | 339333266860 | 1.5
 Not seen on plates 3393 and 3326
 [[image]]
 77 | 1001 | 3393(6982)6990 |
 70166985,86,[[underline]]80[[/underline]],88 | 0.6
 78 | 1002 | 3393(6984)6981 | 7016 6990, 13, 88, 80 (6860) (85) | F0.6
 Hidden on enlargement by Fig 4 of No. 421. Marked on Print from
 D7092
 92 | 1003 | 33936860(81) | 7016 6985, 86, 80, 84, 82, 88, 13, 90, 3326 |
 F1.0
 The preceding star of a pair (separated by about 5")
 78 | ^[[x]]1004 | [[underline]]7016[[/underline]] [[strikethrough]](6988)
 6860[[/strikethrough]] [[underline]]6990[[/underline]] 6981 | 3393
 [[strikethrough]]6990 [[underline]]6913[[/underline]] [[/strikethrough]] 3326
 6860 6980 6988 | F0.6
 78 | 1005 | 6860 [[underline]]6913[[/underline]] (3393) | 6980, 84 6990
 [[underline]]6981[[/underline]] [[underline]]7016[[/underline]] | 0.7
 No. 1005 was found while No. 1004 was being examined.
 No. 1004 not to be announced until after another examination
 78 | [[strikethrough]]7[[/strikethrough]]1006 | 7016 6990 | 3393 6980
 6860 6986, 80 {84} 8288 [[underline]]6913[[/underline]] | 0.7
 78 | [[strikethrough]]7[[/strikethrough]]1007 | 7016 6980 6913 | 3393
 6860 6986 [[underline]]84[[/underline]] 82 88 6990 | 1.0
 78 | [[strikethrough]]7[[/strikethrough]]1008 |
 [[underline]]6860[[/underline]] [[underline]]6986[[/underline]] 82 6913 |
 6980 (84) 88 6990 | 1.0
 No. [[strikethrough]]7[[/strikethrough]]1008 is adjacent to No. 1007 and
 was discerned while observing that var.
 No. [[strikethrough]]7[[/strikethrough]]1007 is the preceding star of a
 very close pair.

[52 Known Var] | Marked known nos 6, 29, 36, 62, 74, 75, 95, 96, 97,
 98, 99, 146, 147, 148, 161, 165, 167, 169,
 [[strikethrough]]167[[/strikethrough]], [[strikethrough]]169[[/strikethrough]],
 170, 171, 174, 175, 192, 200, 201, 211, 283, 285, 286, 294, 295, 348,
 358, 415, 419, 422, 443, 444, 446, 448, 493, 586, 587, 683, 705, 710,
 711, 712, 845, 867, 916, 940

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]] 96 [[/preprinted]]
[[underline]] August 19, 1905 [[/underline]]

The Small Magellanic Cloud [[underline]] New Variables [[/underline]]
D 7093 A 7016
Square | Var | Bright | Faint | R
79 | ^[[x]] 1009 | 339369856986(6987)6985 |
701669806913[[underline]]6982[[/underline]](6990)6981218769926983 |
0.5

Announce? Pattern difficult, but seems to be really variable.

80 | 1010 | 339369856986 | 7016(6980)6860 | 1.0

80 | 1011 | 339369856986 | 70166980(6986)68606913 | 0.5

This appears to be an extremely close pair, of which the preceding member is the variable

80 | 1012 | 339368606985698121833326 | 70166990698269806986 | F
0.5

Marked susp. on print. Difficult

80 | ^[[x]] 1013 | This star of about the 14th magnitude, which is about 15" sound of no. 1012 is strongly suspected of variability, but as it has a nebulous appearance, the variations may be due merely to differences in the diameter of the images |

80 | 1014 | 33936985(6984)691369906981 | 70166988698069866860 |
0.7

80 | ^[[x]] 1015 | 70166860(6986)(6982) | 33931085(6980)6913 | 0.5

These two stars form a pair separated by about 6" No. 1014 is the southern. Both are difficult, especially no. 1015, which is not to be announced without further study. Perhaps they vary alternately.

80 | ^[[x]] 1016 | This close double star should be watched. The preceding component is about certainly variable to the extent of nearly a magnitude. See it Bright on A 3393 and A 6860 faint on A 7016 and A [[underline]]2150[[/underline]]. Very difficult.

66 | 1017 | 7016(6980)(6982)(6988) |

3393686069906984699269813326 | 0.6

80 | 1018 | 70166981[[underline]]3326[[/underline]]698369876986 |
69906992691369886980 | 0.6

Two stars of 16.5 from a with var, which is northernmost. Difficult
81 | 1019 | 701686606913 | 33936986699069826984 | 1.2 |

The Southern star of a close pair

[13 Known Var] | Marked Nos. 100, 385, 387, 391, 457, 459, 516, 518, 524, 531, 592, 610, 886 |

[[end page]]

[[start page]]

[[preprinted]] 97 [[/preprinted]]
[[underline]] August 21, 1905 [[/underline]]

The Small Magellanic Cloud. New Variables.

D 7093 A 7016

Square | Var | Bright | Faint | R

90 | 1020 | 7016(6913)[[underline]]6990[[/underline]](6984) | F 1.2

91 | 1021

[[[strikethrough]]7016[[/strikethrough]]33936982[[underline]]6986[[/underline]] |

[[[strikethrough]]3393[[/strikethrough]]7016698469906913698069886860 |

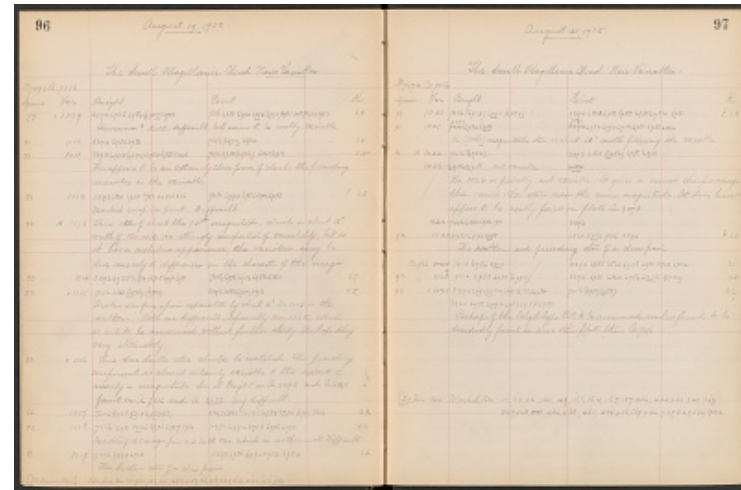
A [15th] magnitude star is about 10" north following the variable

91 | ^[[x]] 1022 | 7016(6982) | 33936860(6986)69886913 |

| [[strikethrough]]1023 | (6986)69[[strikethrough]]88 not variable |

[[[strikethrough]]6982[[/strikethrough]] |

No. 1022 is probably not variable It gives a much sharper image than most other stars near the same magnitude. It does, however, appear to



be really faint on plate A 3393.
 | ~~1023~~ |
 701668606986~~3393~~ |
 92 | 1023 | 698169906985 |
 6860691370163393 | F 1.0
 The southern and preceding star of a close pair
 | No. 736 ~~1024~~ |
 70166986~~6990~~ |
 3393698568606988698069136982 | 1.0
 93 | 102~~5~~4 | 701669886980(6990) |
 339369856866986~~6913~~(6982) | 0.5
 93 | ^~~1025~~ | 33936990(6982)6913,88,86,6860 | 7016(6980)(2183) |
 0.6
 | | 332669816992698369846987 | |
 Perhaps of the Alg Type. Not to be announced rules found to be
 decidedly faint on some other plate than A 7016

| 27 Kn. Var | Marked Nos. 20, 34, 42, 120, 149, 151, 154, 157, 159,
 216, 220, 221, 329, 349, 427, 428, ~~451~~,
 436, 438, 451, 454, 455, 537, 736, 737, 829, 836, 923

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]]98[[/preprinted]]

[[underline]]August 22, 1905[[/underline]]

The Small Magellanic Cloud. New Variables
D7093 A7016

Square | Var | Bright | Faint | R

93 | [^][[x]]1026 | 3393 6913 6860 [[underline]]6988[[/underline]] | 7016
6982, 90 | 0.5

Variation not pronounced. The star is extremely faint, and apparent changes are perhaps worthy photographic
94 | 1027 | 7016 6985 88 86 90 (87) 84 | 3393 (6860) (6981) 2183 3326
2150 (6983) | 0.7

94 | 1028 | 3326 (6983) 84 6982 (90) 6860 88 3393 |
[[underline]]6913[[/underline]] 6981 2150 8786 7016 | 0.6

93 | 1029 | 7016 (6982) 6990 6860 | 8393 (6984) 6913 (6986) 6988
6981 3393 | 0.4

93 | 1030 | 7016 (6990) (6981) | 3393 6980 3988, 86 6860 6913 6982
3326 2150 | 1.0

Interesting. Central star of line of 3 northern 10" of one another.

94 | 1031 | 7016 6986 6988 (6980) (6981) 3326 | 3393 6984, 82,
[[underline]]13[[/underline]] 90 (6985) 6860 2150 | 0.8

94 | 1032 | 6988 (6985) (6981) 3326 (6984) | 6980 2150 6986 (6860)
6990, 6913 6982 2183 2187 7016 3393 | 0.5

Found while observing no. 1031. Difficult, but surely variable

95 | 1033 | 7016 6860 | 3393 (6985) 6980 6988 6990 | B 0.8

95 | 1034 | 7016 6982 | 3393 6985 6980 6988 6860 6986, 13 81 | 0.6

This star was already suspected, though not numbered

120 | 1035 | 3393 (6990) 81 | 7016 6985, 80, 88,

[[underline]]6860[[/underline]], 6913 | 0.6

106 | [^][[x]]1036 | 7016 [[underline]]3326[[/underline]]

[[strike]]2[[/strike]] | 3393 6984 6982 2150 | 0.5

106 | 1037 | 3393 6984 80 [[underline]]90[[/underline]] | 7016 6982 13 86
88 | 0.7

The evidence of variability in no. 1036 is not conclusive

120 | 1038 | 3393 (88) (13) 3326 6980 | 7016 6990

[[strike]]80[[/strike]] 6860 (6986), 84, 81, 2150 | 0.8

120 | [^][[x]]1039 | 3393 (6860) (6913) 3326 | 7016 6990, 80, 88, 86, 84,
81, 2150

No. 1038 is really bright only on A3393, but evidence is conclusive

| [^][[x]] | No. 1039 is too faint for observation. May not be variable |

[24 Known Var | Marked Nos. 25, 28, 43, 50, 51, 52, 122, 123, 155, 272,
[[strike]]334[[/strike]] 274, 334, 335, 338, 343, 345, 374,
452, 453, 543, 545, 615, 821, 834

[[end page]]

[[start page]]

[[preprinted]]99[[/preprinted]]

[[underline]]August 23, 1905[[/underline]]

The Small Magellanic Cloud. New Variables
D7093 A7016

Square | Var | Bright | Faint | R

107 | 1040 | 7016 (3981) | 3393 6990 [[underline]]6980[[/underline]]

(6988) (6860) [[underline]]6986[[/underline]], [[underline]]13[[/underline]],

[[underline]]82[[/underline]], (84) | [[strike]]0.8[[/strike]] 1.0

108 | 1041 | 7016 6984 6913 [[underline]]6860[[/underline]] 6985 | 3393

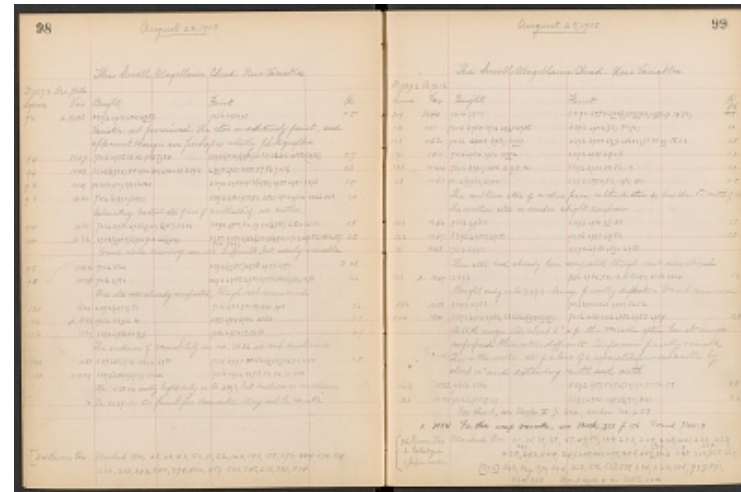
6982 (88) 80 (90) | 0.6


108 | 1042 | 7016 [[strike]]6984[[/strike]] (6986)

[[underline]]6987[[/underline]] | 3393 6982 [[underline]]6913[[/underline]]

6860 [[underline]]6988[[/underline]] 80 [[underline]]90[[/underline]] 85 83
| 0.8

121 | 1043 | 7016 6983 6984 [[underline]]6982[[/underline]] | 3393 6987
6913 | 1.0



135 | 1044 | 7016 (6990) 6860 6982 | 3393 6980, 88, 86, 13 | 0.8
 108 | 1045 | 7016 (6980) 6860 6982 | 3393 6984, 82, 13, 86, 6860 | 0.5
 The northern star of a close pair; a third star is less than 0.1^m north
 of both
 The southern star is under slight suspicion
 122 | 1046 | 7016 6986 | 3393 6985 90 | 88 | 0.8
 122 | 1047 | 3393 (6985) 6988 | 7016 6990 6986 | 0.8
 121 | 1048 | 7016 6990 | 3393 6980 6860 | 6981 |
 This star had already been suspected, though not numbered
 121 | ¹⁰⁴⁹ | 3393 | 7016 6984, 82, 13, 88 86 (80) 2150 3326 | 0.6
 Bright only on A3393. Group possibly defective. Do not announce
 123 | 1050 | 3393 6988 | 7016 6990 6860 6980, 86 82 |
 122 | 1051 | 3393 (6984) 6982, 88 68 60 (6990)
6983 | 7016 2150 3326 6986 6985 6987 | 0.8
 A 16th magn. star about 5" sp the variable often has its range
 supposed. Observation difficult. Comparison possibly variable
 | 1051 | This is the southern star of a line of 3 separated from
 one another by about 10" and extending north and south
 123 | 1052 | 7016 6860 | 3393 6987, 82, 83, (84) 90, 80, 86, 88 | 0.8
 123 | 1053 | 7016 6988 (82) | 3393 6860 6986 (6990) (84) | 0.6
 For chart, see Book X p. 204, under no. 258
¹⁰⁵⁴ | For this susp. variable, see Book XIV p. 176 Found Nov. 8
 {46 Known Var 2 Catalogue 1 proper
 motion 1 | Marked Nos. 30, 35, 39, 38, 47, 49, 80, 124, 223, 224,
 228, 231, 232, 233, 238, 240, 243, 244, 247, 248, 249, 250, 255, 257,
 259, 263, 3~~2~~~~58~~, 360, 364, 365, 367,
 [372] 368, 369, 370, 394, 462, 556, 557, 558, 620, 622, 624, 797, 891,
 964, 966 Nos. 8 and 9 on NgC 362

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

August 24, 1905

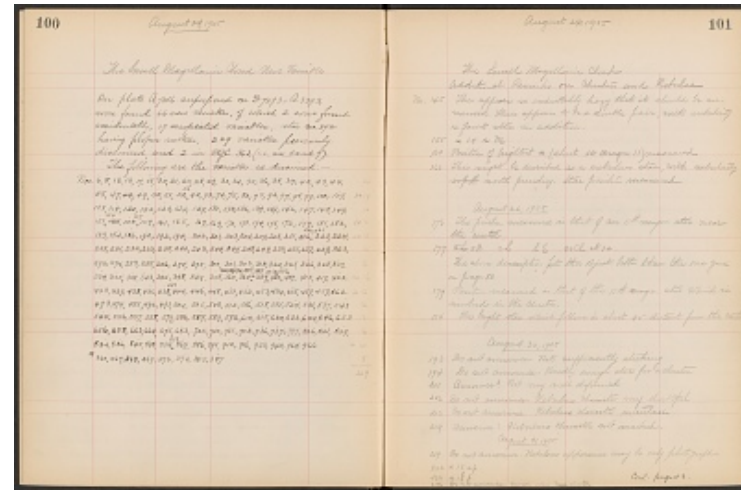
The Small Magellanic Cloud New Variables

On plate A 7016 superfocused on D7093 = A3393, were found 66 new variables, of which 2 were found accidentally, 17 suspected variables, star no. 372 having proper motion, 229 variables previously discovered and 2 in NYC 362 (i.e. nos. 8 and 9).

The following are the variables re-discovered: [?]

Nos. 6, 8, 12, 13, 17, 18, 20, 21, 25, 28, 29, 30, 34, 35, 36, 38, 39, 42, 42, 44, 45, 47, 49, 50, 51, 52, 56, 62, 72, 74, 75, 80, 95, 96, 97, 98, 99, 100, 107, 108, 114, 120, 122, 123, 124, 129, 131, 133, 136, 139, 141, 146, 147, 148, 149, 151, 154, 155, 157, 161, 165, 167, 169, 170, 171, 174, 175, 176, 179, 181, 182, 183, 184, 186, 190, 192, 194, 200, 201, 203, 204, 207, 208, 211, 216, 220, 221, 223, 224, 228, 231, 232, 233, 238, 240, 243, 244, 247, 249, 250, 255, 257, 259, 263, 272, 274, 283, 285, 286, 294, 295, 300, 301, 303, 313, 320, 321, 326, 328, 329, 334, 335, 338, 343, 345, 348, 349, 358, 360, 364, 389, 391, 394, 400, 406, 409, 415, 419, 422, 423, 427, 428, 436, 438, 443, 444, 446, 448, 451, 452, 453, 454, 455, 457, 459, 462, 473, 474, 485, 492, 493, 504, 505, 508, 512, 516, 518, 521, 524, 531, 537, 543, 545, 556, 557, 558, 579, 586, 587, 589, 592, 610, 615, 620, 622, 624, 646, 653, 656, 658, 663, 664, 675, 683, 705, 710, 711, 712, 736, 737, 797, 806, 821, 829, 834, 836, 845, 848, 854, 859, 867, 886, 891, 912, 916, 923, 940, 964, 966

*365, 367, 368, 369, 370, 374, 385, 387



Information on the right-hand page of the journal reads as follows:

August 24, 1905

The Small Magellanic Cloud

Additional remarks on Chislits [?] and Nebulae [?]

No. 145 This appears so undoubtedly hazy that it should be announced.

There appears to be a double pair, with nebulosity or faint stars in addition.

155 *15 s M

160 Position of brightest * (about ~~10~~)

Maga 11) measured

166 This might be described as a nebulous star, with nebulosity north preceding. Star position measured.

August 26, 1905

176 The position measured so that of an 11th mega star were the centre.

177 VB CL LE COCL at 12

The [?] description fits this object better than the one give on page 80.

179 Position measured as that of the 11th magna star which is involved in the cluster.

184 The bright star which follows is about 40" distant from the centre.

August 30, 1905

192 Do not announce. Not sufficiently striking

194 Do not announce. Hardly enough stars for a cluster

201 Announce? Not very well defined

202 Do no announce. Nebulous character very doubtful

203 Do not announce. Nebulous character uncertain

209 Announce? Nebulous character not marked.

August 31, 1905

219 Do not announce. Nebulous appearance may be only photographic

222 *15 s'p

233 *14 f


236 Do not announce. Probably not a cluster

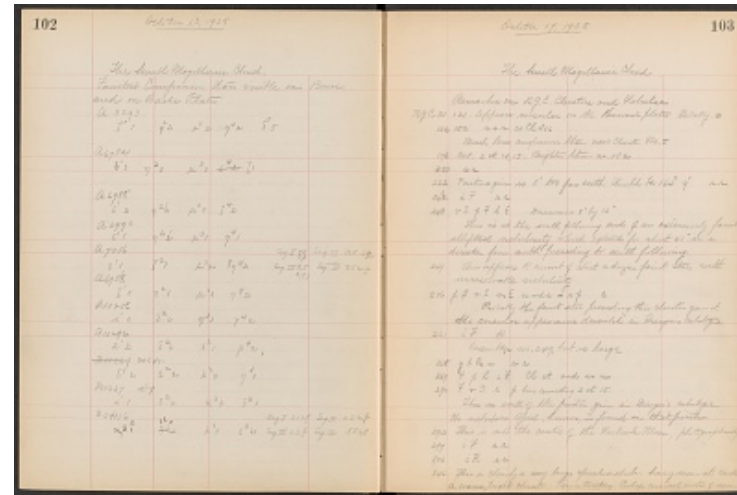
Cont. pages 103

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 102 [[/preprinted]]
[[underlined]]October 13, 1905[[/underlined]]
The Small Magellanic Cloud
Faintest Comparison Stars visible on Bruce and on Bache Plates

A3393
zeta^{[[1]]} 1 | eta^{[[2]]} 2 | mu^{[[3]]} 2 | eta ^{[[4]]} 2 | delta^{[[5]]} 5
A6982
delta^{[[1]]} 3 | eta^{[[2]]} 0 | mu^{[[3]]} 0 | 4 ~~[[[kethrough]]epsilon~~
2~~[[[kethrough]]sigma~~ 1 zeta 1
A6985
epsilon^{[[1]]} | eta^{[[2]]} 1 ~~[[[kethrough]]0~~[[[kethrough]]~~ | mu^{[[3]]} 0 |~~
zeta^{[[4]]} 2
A6990
epsilon^{[[1]]} | eta^{[[2]]} 1 ~~[[[kethrough]]0~~[[[kethrough]]~~ | mu^{[[3]]} 1 |~~
eta^{[[4]]} [^][[Seq. I 7.5 sp Seq II 13.5 sp]]
A7016
epsilon^{[[1]]} 1 | zeta^{[[2]]} 1 | mu^{[[3]]} 2 |
~~[[[kethrough]]7~~[[[kethrough]]~~ eta^{[[4]]} 2 [^][[Seq. III 8.5 s(f) Seq. IV~~
3.5 nff]]
A6981~~[[[kethrough]]8~~[[[kethrough]]~~~~
theta^{[[1]]} 0 | eta^{[[2]]} 1 | mu^{[[3]]} 3 | eta^{[[4]]} 2
B10256
alpha^{[[1]]} 0 | sigma^{[[2]]} 0 | eta^{[[3]]} 1 | gamma^{[[4]]} 2
B10292
zeta^{[[1]]} 2 | sigma^{[[2]]} 0 | sigma^{[[3]]} 1 | beta^{[[4]]} 2
~~[[[kethrough]]B10367~~[[[kethrough]]~~ 20645~~
sigma^{[[1]]} 2 | epsilon^{[[2]]} 2 | lambda^{[[3]]} 0 | eta^{[[4]]} 0
B10367 ~~[[[kethrough]]alpha^{[[1]]} 1~~[[[kethrough]]~~~~
alpha^{[[1]]} 1 | sigma^{[[2]]} 0 | kappa^{[[3]]} 0 | sigma^{[[4]]} 1 [^][[Seq I 3.0 nf
Seq II 0.5 np]]
B34116
~~[[[kethrough]]alpha^{[[1]]}~~[[[kethrough]]~~ beta^{[[2]]} x |~~
~~[[[kethrough]]sigma^{[[2]]} 1~~[[[kethrough]]~~ epsilon^{[[2]]} 0 | lambda^{[[3]]}~~
0 | epsilon^{[[4]]} 2 [^][[Seq III 3.3f Seq IV 5.8 nff]]
[[end page]]
[[start page]]
[[preprinted]] 103 [[/preprinted]]
[[underlined]]October 17, 1905[[/underlined]]
The Small Magellanic Cloud

Remarks on N.g.C. Clusters and Nebulae
NgC |
121 | 121- Appears circular on the Narrowed plates Probably 
152 | 152 rrr co Cl st 16
Much less conspicuous than new cluster No. 5
176 | Blt. 2 st 14, 15. Brighter than no. 152
220 | rr
222 | Positive grin is 5' too far south. Should be 164[^][[degrees]] 9' rr
241~~[[[kethrough]]2~~[[[kethrough]]~~ | i7 rr~~
248 | vS p 7 | E Dimensions 8" by 12"
This is at the south following end of an exceedingly faint elliptical
nebosity which extends for about 40" in a direction from north
preceding to south following.
249 | This appears to consist of about a dozen faint stars with
unresolvable nebosity
256 | p 7 r S mE n and e * 16 p r
Probably the faint star preceding this cluster gan it the circular
appearance described in Dreyer's catalogue
261 | i7 R



Resembles no. 249, but is larger
265 | g b ~~N~~ n r r
267 | 7 p L i7 Cl st and m n
290 | 7 v S r p line connecting 2 st 15.
This is south of the position given in Dreyer's catalogue.
No nebulous object, known, is found in that position
292 | This is not the centre of the Nubecula Mirro, photographically
299 | i7 rr
306 | iR rr
346 | This is clearly a ~~very~~ larger spiral
nebula, having seen its centre a coarse, bright cluster. Very interesting.
Perhaps cosmical centre of region

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]104[[/preprinted]]

[[underlined]] October 18, 1905 [[/underlined]]

The Small Magellanic Cloud
Remarks on NGC Cluster and Nebulae

NGC

361 * 15 f M

362 Position out in R.A. True pos. follows 1 ^m. Identical with CPD-71°35

371 p B.

Dreyer's Catalogue describes this large cluster as faint, but it is a very conspicuous object on the photographs.

395 Not very faint. Not round. Should describe as follows-
p 7 L c 7 co Cl st at 15

406 7 L m E

411

416 Probably a globular cluster

419

422 F S E bi N.

This might better, perhaps, be described as a double nebula, for the nuclei are precisely similar and entirely distinct.

456 p 7 p LL CR co Cl st 14 and m n

See remark page 80 after no. 173

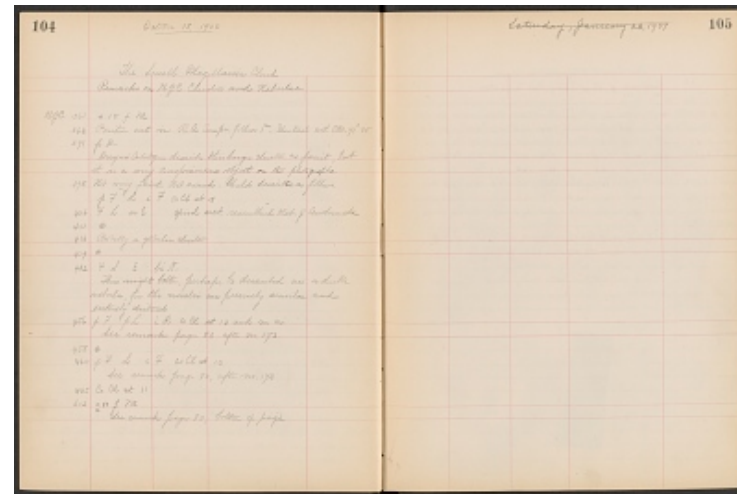
458

460 p 7 L c 7 co Cl st 13

See remark page 80 after no. 173

465 Co Cl st 11
602 *11 f M

* See remark page 80, bottom of page
[[end page]]
[[start page]]



[[preprinted]] 105 [[/preprinted]]

[[striketrough]]Saturday, January 26, 1907[[striketrough]]
[[end page]]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]106[[/preprinted]]

[[underlined]]October 24, 1905[[/underlined]]

Sequence 1 The Small Magellanic Cloud
Estimates of Brightness of New Variables

	825	827		*						
JD Plate No.	No. 15	No. 60	No. 100	No. 111	No. 112	No. 290	No. 291	No. 391	No. 742	No. 71
3888.576 A2183	14.10	13.50	14.15	<16.0	<16.0	n.s.	15.20	15.60	15.25	14.6
4573.517 A3326	13.3	14.0	14.3	14.8	16.4	16.3	14.7	14.3	16.3	14.8
3861.608 A2150	14.0	13.55	14.2	14.8	15.5	16.1	15.0	15.7	16.2	14.65
6754.599 A6984	13.4	14.15	14.4	15.5	16.2	15.5	14.85	15.7	16.4	14.55
4604.512 A3393	13.3	13.3	14.8	15.9	15.4	14.8	14.3	15.1	16.2	14.8
6757.543 A6984	13.5	13.6	14.7	16.15	16.3	15.7	15.3	16.1	16.0	14.8
6753.626 A6980	13.4	14.3	14.1	15.8	15.9	16.2	15.3	15.2	15.9	14.25
6710844 A6860	13.5	14.0	14.7	15.7	16.5	14.7	15.7	16.4	14.6	
3834.655 A2115	-	13.5								

[[underlined]]October 25, 1905[[/underlined]]

[[end page]]
[[start page]]

[[preprinted]]107[[/preprinted]]

Plate 2183 Ident. of No. 112 uncertain No. 391 [?] much sharper than &

3326 No. 111 A 16th magn. star precedes by 0.^m2 No. 71 A 16th magn, * p. D^m2

2150 No. 290. Est. uncertain No. 742 difficult

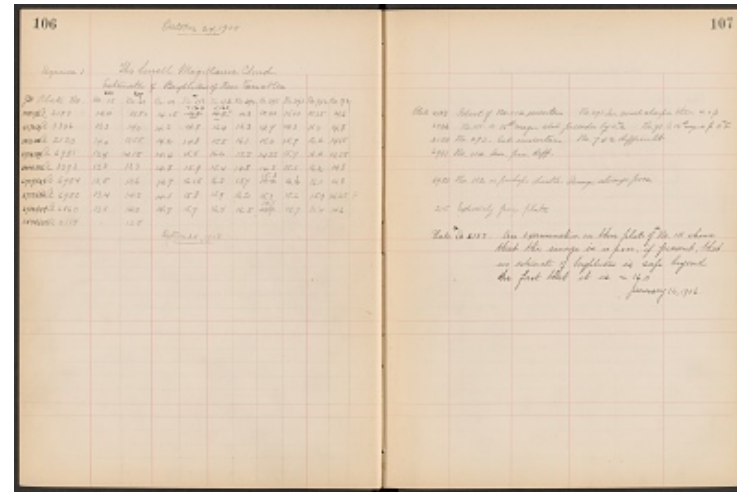
6981 No. 112 [?] from diff.

6980 No. 112 is perhaps double. Images always poor

2115 Extremely poor plate

Plate *A 2183 An examination on this plate of *No. 111 shows that the image is so poor, if present, that no estimate of brightness is safe beyond the fact that it is < 16.0

January 16, 1906.



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]108[[/preprinted]]
[[underline]]November 13, 1905[[underline]]

The Small Magellanic Cloud.

Var | Br | Ft | R

1055 | B20645, 20655 etc, 26477 |

[[strikethrough]]B0[[/strikethrough]]A3326 etc | 14.0 to 17.0

This striking variable, apparently of long period, was found while selecting sequence 14.

It is south of a line of these faint stars, and is just visible on the best B[[?]] plates of long exposure.

[[diagram]]

1056 | Found when measuring variables on A6988, Nov. 22, 1905.
Su Book XVIII page 19 Bright on A 2150, A6988

[[end page]]

[[begin page]]

[[preprinted]]109[[/preprinted]]

[[underline]]January 18, 1906[[underline]]

The Small Magellanic Cloud

Var | Br | Ft

1057 | A6982 | A3393

Found while selecting sequence 24

1058 | A6913 | A3393

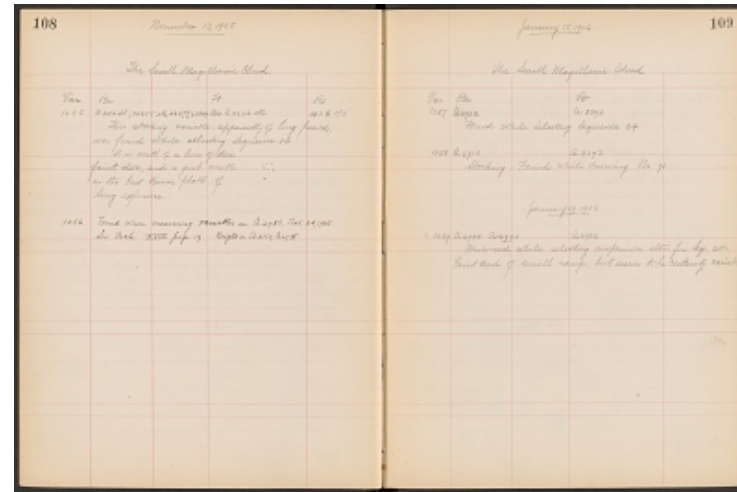
Striking. Found while observing No. 91

[[underline]]January 19, 1906[[underline]]

x 1059 A6985 A6990 | A6980

Discovered while selecting comparison stars for Seq. 25.

Faint and of small range, but seems to be certainly variable



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 110 [[/preprinted]]
Tuesday, January, 23 1906

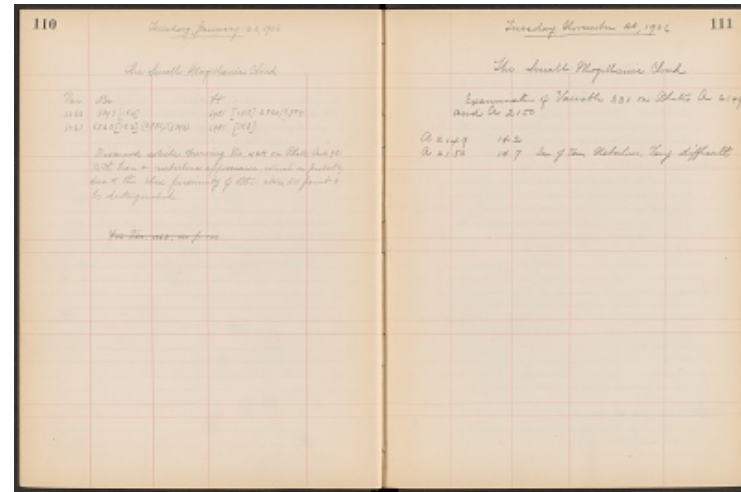
The Small Magellanic Cloud
Var. | Br | Ft
1060 | 3393[15.4] | 6981 [15.8] 6960 (6980)
1061 | 6860[15.2](6980)(3393)| 6981 [15.8]

Discovered while observing No. 424 on Plate A 6981
Both have a nebulous appearance, which is probably due to the close
proximity of other stars, too faint to be distinguisged
[[striketrough]] For Var. 1062, see p.120[[/striketrough]]

[[end page]]
[[start page]]

[[preprinted]] 111 [[/preprinted]]
Tuesday, November, 20 1906
The Small Magellanic Cloud
Examination of Variable 331 on Plates A 2149 and A 2150

A 2149 | 14.2
A 2150 | 14.7 Im. of Var. Nebulous, Very difficult



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]112[[/preprinted]]

[[underlined]]Saturday, January 26, 1907[[/underlined]]

The Small Magellanic Cloud

Estimates of brightness of variables not hitherto estimated.

[[checkmark]]~~82~~ | 7016 [15.3] ~~su p. 62~~ |
~~6985~~ [15.8]

[[checkmark]]84 | A3393 [12.0] | 2183 [14.0]
[[checkmark]]85 | ~~3393~~ [14.2] | 2183
[14.8]
[[checkmark]]87 | 6980 [14.5] | 6985 [15.0]
[[checkmark]]90 | 6986 [14.7] | 3393 [16.0]
[[checkmark]]95 | 3393 [14.8] | 6986 [16.0]
[[checkmark]]96 | ~~6988~~ [15.8] ~~3393~~ [15.7] | 7016 [14.8] | 6988
[15.8]
[[checkmark]]97 | 3393 [15.8] | 6988 [16.4]
[[checkmark]]102 | 6982 [14.2] | 6988 [15.0]
[[underline]]6980[[/underline]]
~~425~~ | 6860 [15.0] | 6980 [15.5] ~~see~~
page 115
^[[x]] [[checkmark]]342 | I do not feel assured of the variability of this
star. Return to suspected list
[[checkmark]]389 | B20645 [12.5] | 3393 [13.0] B34116 [14.5]
[[checkmark]]390 | B34116 [13.0] | B20645 [14.7]
[[checkmark]]546 | 6988 [14.7] | 6986 [15.8]
[[checkmark]]740 | 6985 [15.0] | 7016 [15.8]
[[checkmark]]1048 | 7016 [15.9] | 3393 [16.5]
[[checkmark]]A sixteenth magn. star precedes 9"
[[checkmark]]1050 | 3393 [15.1] | 7016 [16.0]
~~1057~~ | Moving star. See
page 114.
Variation very slight; first on list of suspected variables.

[[end page]]
[[start page]]

[[preprinted]]113[[/preprinted]]

[[underlined]]Tuesday, January 29, 1907[[/underlined]]

The Small Magellanic Cloud.

Estimates of brightness continued.

Var | Br | H

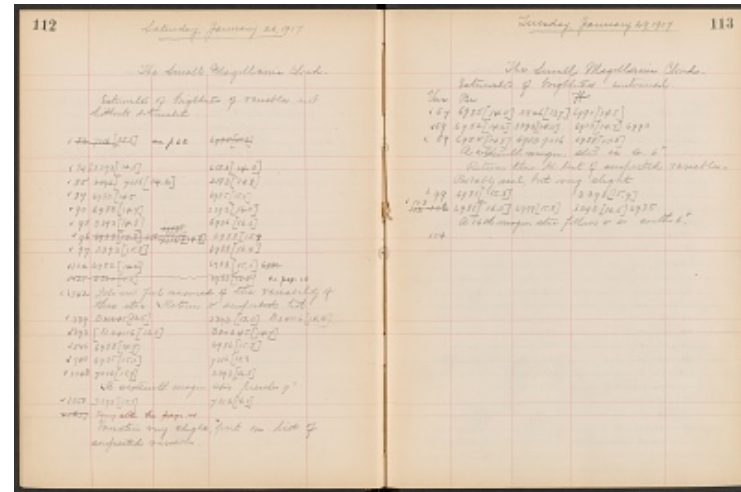
[[checkmark]]67 | 6985 [14.0] 3326 [13.7] | 6990 [14.5]
[[checkmark]]69 | 6982 [14.2] 3393 [14.0] | 6913 [14.7] 6990
x89 | 6985 [14.8] 6913 7016 | 6988 [15.3]

A sixteenth magn. star is s. 6".

Return this to list of suspected variables.

Probably real, but very slight

[[checkmark]]99 | 6981 [15.3] | 3393 [15.9]
[[checkmark]]103 | ~~102-102~~ [16.0] | 6981 [16.0]
6988 [15.8] | 3393 [16.6] 6985



A 16th magn. star follows & is south 6".
104 |

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 114[[/preprinted]]

[[underlined]] Wednesday, January 30, 190[[/underlined]]
[[/strickethrough]] 7 [[/underlined]]

The Small Magellanic Cloud
Estimates of Brightness continued

Var | Br | Ft.

[[checkmark]] 21 | 6981 [14.5] 3393 | 6913 [15.0] 6980

[[checkmark]] 25 | [[/strickethrough]] [14.3 [[/strickethrough]]] 3393 [14.3] |
6981 [15.2]

[[checkmark]] 72 | 3393 [15.1] | 6981 [16.3]

[[checkmark]] 73 | 6986 [14.6] 6981 | 2183 [15.5] 3393

A 16th magn. star is south 5". This companion perhaps varies slightly.

[[checkmark]] 75 | 3393 [14.8] | 6981 [16.2]

[[checkmark]] 104 | 6980 [14.0] 6981 | 3393 [14.8]

[[checkmark]] 105 | 6981 [15.8] | 6980 [16.5]

[[checkmark]] 106 | 6981 [14.8] | 3393 [15.5]

[[checkmark]] 107 | 6981 [15.5] | 3393 [16.0]

[[checkmark]] 108 | 6981 [15.8] | 3393 [16.8]

[[checkmark]] 109 | 6981 [15.9] | 3393 [17.0]

[[checkmark]] 110 | 6981 [14.6] | 3393 [14.8] 6988 [15.6]

[[checkmark]] 113 | 6981 [14.7] | 3393 [15.7]

Measured [[/strickethrough]] 114[[/strickethrough]] | 3393 [15.6] | 6981 [16.2]

[[checkmark]] 115 | 6981 [14.8] | 3393 [15.3]

[[checkmark]] 116 | 3393 [14.5] | 6981 [15.4]
1057 | 3393 [15.5] 6982 [14.8] | 6860 [15.8]
x 118 | 6913 [14.7] 6981 | 6860 3393 [14.9]

Put this on susp. list. very difficult

[[checkmark]] 119 | 3393 [14.6] | 6981 [15.3]

[[checkmark]] A [[/strickethrough]] 16 th[[/strickethrough]] 15 magnitude is
north and preceding by 6".

[[checkmark]] 121 | 6981 [14.1] | 3393 [15.2]

The image shows two pages of a handwritten astronomical log, numbered 114 and 115. The pages are titled "The Small Magellanic Cloud" and "Estimates of Brightness continued". The entries are organized into columns, with some entries marked with checkmarks or crossed out. The handwriting is in cursive, and the paper appears aged. The log contains various numerical data, likely representing magnitudes or positions, and some descriptive notes in italics.

A fifteenth magn. star is north 6"

[[end page]]
[[start page]]

[[preprinted]]115[[/preprinted]]

Wednesday, January 30, 190

The Small Magellanic Cloud

Var | Br | Ft

[[checkmark]] 122 | 3393 [14.8] | 6981 [15.8]
[[checkmark]] 123 | 6981 [15.0] | 3393 [15.8]
[[checkmark]] 124 | 6981 [14.7] | 3393 [15.9]
[[checkmark]] 125 | 6981 [15.][[strikethrough]]8[[/strikethrough]]1 | 3393 [16.4][[strikethrough]]15.8
[[strikethrough]]For this variable, see p 112[[/strikethrough]]
Already at. [[strikethrough]] 126 | 3393 [13.9] | 6981 [14.8]
[[checkmark]] 128 | 3393 [14.8] | 6981 [16.0]
[[checkmark]] A fifteenth magn. star precedes 9".
[[checkmark]] 129 | 3393 [15.6] | 6981 [16.3]
[[checkmark]] 130 | 6981 [15.0] | 3393 [16.0]
[[checkmark]] 131 | [[strikethrough]]6[[/strikethrough]] 3393 [14.8] | 6981 [16.0]
[[checkmark]] A sixteenth magn. star is south 10"
[[checkmark]] 132 | 6981 [14.6] | 3393 [16.0]
[[checkmark]] 133 | 6981 [15.4] | 3393 [16.2]
[[checkmark]] 134 | 3393 [14.8] | 6981 [16.1]
[[checkmark]] 135 | 6981 [15.1] | 3393 [15.9]
[[checkmark]] 136 | 3393 [14.6] | 6981 [16.3]
[[checkmark]] 13[[strikethrough]]8[[/strikethrough]]7 | 2183 [14.7] | 6981 [16.2]
[[checkmark]] 139 | 3393 [14.8] | 6981 [16.0]
[[checkmark]] 140 | 6981 [15.4] | 3393 [16.0]
[[checkmark]] 141 | 6981 [15.3] | 3393 [16.0]
x 142 | Changes slight. Remove to suspected list
[[checkmark]] 143 | 6980 [14.6] | 3393 [15.5]
[[checkmark]] 144 | 6981 [15.4] | 2183 | 3393 [16.0]
[[checkmark]] 145 | 3393 [14.1] | 6981 [15.2]
[[checkmark]] 146 | 6860 [14.5] | 6990 [15.2]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]] 116[[/preprinted]]
 Wednesday, January 30, 1907
 The Small Magellanic Cloud
 Estimates of Brightness of Variable Cont.

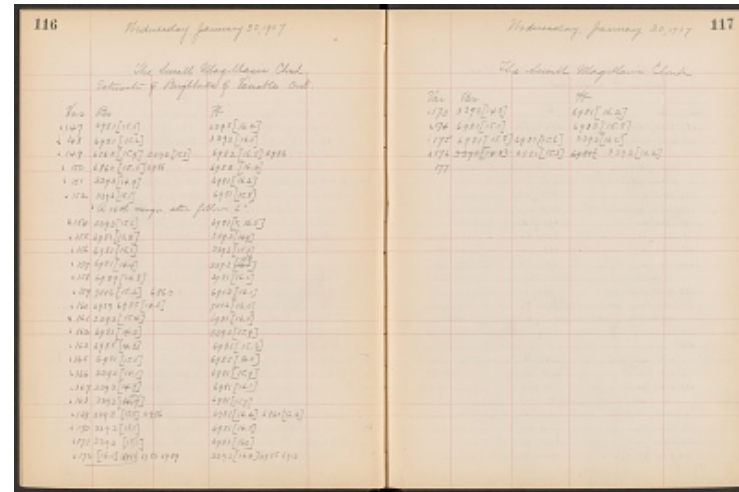
Var	Br	H-
147	6981 [15.0]	3393 [16.2]
148	6981 [15.2]	3393 [16.0]
149	6860 [15.9]	6982 [16.5] 6986
150	6860 [15.0]	6982 [16.2]
151	3393 [14.9]	6981 [16.2]
152	3393 [15.1]	6981 [15.8]
A 16th magn. star follows 6"		
154	3393 [15.6]	6981 [16.5]
155	6981 [13.8]	3393 [14.9]
156	6981 [15.1]	3393 [15.9]
157	6981 [14.4]	3393 [15.8] 15.8
158	6989 [14.8]	6981 [16.0]
159	7016 [15.2]	6860 [16.1] 6913 [16.1]
160	6989 6985 [14.5]	7016 [16.0]
161	3393 [15.4]	6981 [16.0]
162	6981 [14.3]	3393 [15.9]
163	6985 [14.3]	6981 [15.3]
165	6981 [15.0]	6985 [16.0]
166	3393 [15.0]	6981 [15.9]
167	3393 [14.7]	6981 [16.1]
168	3393 [15.1] 14.7	6981 [15.7]
169	3393 [15.8] 6986	6981 [16.2] 6860 [16.4]
170	3393 [15.0]	6981 [16.0]
171	3393 [15.0]	6981 [16.0]
172	<u>16.0</u> 6981	6986 6989 3393 [16.4] 6985

6913
 [[end page]]
 [[start page]]

[[preprinted]] 117[[/preprinted]]
 Wednesday, January 30, 1907
 The Small Magellanic Cloud

Var	Br	H-
173	3393 [14.8]	6981 [16.2]
174	6981 [15.0]	6913 [15.8]
175	6981 [15.8] 6980	3393 [16.2]
176	3393 [14.8] 6981	6981 [15.3]
177	6981	3393 [16.2]

[[end page]]



Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]] 118 [[/preprinted]]

[[underlined]] Thursday, January 31, 1907 [[/underlined]]

The Small Magellanic Cloud.
Estimates continued.

Var | Br | Ft

[[checkmark]] 177 | 3393 [15.4] | 6981 [17.0]

[[checkmark]] 178 | 6988 [16.3] | 6981 [17.0]

A seventeenth magnitude star north of Nos. 177 and 178 forms an equilateral triangle with them.

[[checkmark]] 179 | 3393 [14.8] | 6981 [15.6]

[[checkmark]] 180 | 3393 [14.0] 2183 [13.8] | 6860 [14.5] 6981

[[checkmark]] 181 | 3393 [14.1] | 6981 [14.8]

[[checkmark]] 182 | 3393 [14.7] | 6981 [16.0]

[[checkmark]] 183 | 3393 [14.7] | 6981 [16.2]

[[checkmark]] 184 | 3393 [14.5] | 6986 [15.8]

A sixteenth magnitude star precedes 5"

x 185 | 6981 [15.2] 6990 | 3326 [15.6] 6913 3393

A very different object. Seems to be variable but a sixteenth magnitude star is south 2".

[[checkmark]] 186 | 6981 [15.3] 6988 [15.0] | 3393 [15.8] 6990 6913

[[checkmark]] 188^7 | 3393 [15.5] | 6981 [16.0]

[[checkmark]] 189 | 3393 [14.7] | 6981 [16.0]

A sixteenth magnitude star is south 8"

[[checkmark]] 190 | 3393 [14.7] | 6981 [16.0]

[[checkmark]] 191 | 3393 [15.2] | 6981 [16.0]

[[checkmark]] 192 | 6981 [14.7] | 3393 [15.5] 6980 [15.7]

[[checkmark]] 193 | 6981 [15.7] 6986 | 3393 [16.2] 6985

118 Thursday January 31, 1907

The Small Magellanic Cloud.

119 Thursday January 31, 1907

The Small Magellanic Cloud.

[[end page]]
[[start page]]

[[preprinted]] 119 [[/preprinted]]

The Small Magellanic Cloud

[[underlined]] Thursday, January 31, 1907 [[/underlined]]

The Small Magellanic Cloud.

Var | Br | Ft

[[checkmark]] 194 | 3393 [15.3] | 6981 [16.1]
[[checkmark]] 195 | 6981 ~~3393~~ [15.6]
~~16.0~~ | 6986 [16.1]
~~5~~ | 6985 6913
[[checkmark]] 196 | 15.7 (6986) 6984 [15.5] | 6913 [16.1]
[[checkmark]] 197 | 6981 [15.7] | 3393 [16.5]
[[checkmark]] 198 | 6984 [15.6] 6985 [15.3] | 7016 [15.9] 6988 [16.0]
[[checkmark]] Looks decidedly nebulous. May be involved in a
nebulous or in a small, faint cluster. A similar object is south 10" and
appears to be distinctly brighter than the normal on Plate A6986.
Perhaps variable also.
[[checkmark]] 199 | 3393 [15.3] | 6981 [16.5]
[[checkmark]] 200 | 6984 [14.6] | 6981 [16.2]
[[checkmark]] 201 | 6980 [14.7] | 6981 [15.9]
[[checkmark]] 202 | 6981 [15.0] 6986 [14.7] | 6980 [15.7]
[[checkmark]] 203 | 3393 [14.5] | 6981 [15.0] 6983 [15.3]
[[checkmark]] 204 | 6980 [14.7] | 6984 [15.7]
[[checkmark]] 205 | 6989 [14.8] 6860 6990 | 6988 [16.2]
[[checkmark]] 206 | 6989 [14.8] 6860 6990 | 6988 [16.2]
[[checkmark]] 991 | 6913 [15.7] 7016 | 6981 [16.4] 6860
[[checkmark]] 207 | 6992 [14.1] | 6980 [15.7]
[[checkmark]] 208 | 6989 [15.5] 6990 | 6986 [16.1]
[[checkmark]] 209 | 6980 [15.3] 6913 | 6982 [16.1]
[[checkmark]] 210 | 6981 [15.0] | 3393 [15.8]
[[checkmark]] 211 | 6981 [15.2] | 3393 [17.0]
~~16.6~~ |
[[checkmark]] 212 | 6981 [15.8] ~~16.2~~ |
6984 | 3393 [16.3] ~~7~~ | 6988 [16.6]
~~17.0~~ |
[[checkmark]] 213 | ~~6982~~ [16.3] | 6913
[15.5] 6988 | 6982 ~~16.3~~ | 6984 [16.3] 6985
[[checkmark]] 214 | 6982 [15.9] ~~16.3~~ |
6984 6985 | 7016 [16.6] ~~17.0~~ | 6913

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]120[[/preprinted]]
Thursday, January 31, 1907
The Small Magellanic Cloud
Estimates continued

Var | Br | H
215 | 6981 [15.6] ~~16.0~~ | 3393
[16.6] ~~17.0~~
216 | 3393 [15.1] ~~6~~ | 6981
[16.6] ~~17.0~~
217 | 6981 [15.6] ~~16.0~~ | 6860 [15.5] |
3393 [16.1] ~~5~~
218 | 6981 [15.6] ~~16.0~~
219 | 6981 [15.0] | 3393 [16.2]
220 | 3393 [15.6] ~~16.0~~ | 6981 [16.4]
[~~8~~]
Two stars of the 17th magn form ~~an~~
triangle, 10" on a side, with the variable, which is at the north preceding
angle.
~~1062~~
~~1062~~
221 | See page 18
222 | 6981 [15.6] ~~16.0~~ | 6860 | 6986 [16.4]
[~~8~~]
223 | 3393 [15.0] | 6981 [16.0]
224 | 3393 [15.8] | 6988 [16.5]
225 | 3393 [15.2] | 6981 [16.0]
A 15th magnitude star is south of this variable and follows 10".
226 | 6981 [15.3] 6913 | 3393 [15.8] 6984 6980
227 | 6981 [15.0] 6984 | 3393 [15.7]
[~~6984~~]
228 | 3393 [15.5] | 6981 [16.2]
229 | 6981 [14.7] | 3393 [15.6]
230 | 6981 [14.7] | 3393 [15.5]
A 16th magn. star follows 5"
231 | 6981 [12.1] ~~5~~ | 3393 [13.7]
[~~13.7~~]
232 | 6981 [15.9] | 3393 [16.8]
[~~233~~] | A 17th magn. star
[~~follows 8~~] is south preceding 8"

The image shows two pages of a handwritten astronomical log, numbered 120 and 121. The pages are titled "Thursday, January 31, 1907" and "The Small Magellanic Cloud". The text is written in cursive and includes various numerical data and descriptive notes. The log appears to be a record of observations, possibly of stars or galaxies, with columns for different parameters or measurements. The handwriting is somewhat faded and the paper shows signs of age.

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

[[preprinted]]122[[/preprinted]]
[[underline]]Friday, February 1, 1907[[/underline]]
The Small Magellanic Cloud
Estimate cont.

Var | Br | Ft

251 | ~~[[striketthrough]]15.1[[/striketthrough]]~~ 6981 [15.1] | 3393 [15.8]

252 | 6981 [14.8] | 6985 [15.6]

253 | 3393 [14.2] | 6981 [15.2]

253 | 3393 [14.4] | 6981 [15.4]

255 | 6986 [14.2] | 6985 [15.1]

Already est. ~~[[striketthrough]]256[[/striketthrough]]~~ | 3393 [15.0] | 6981 [15.8]

" ~~[[striketthrough]]257[[/striketthrough]]~~ | 3393 [14.1] | 6981 [15.0]

258 | 3393 [14.3] | 6981 [15.4]

259 | 3393 [14.5] | 6981 [15.4]

A 15th magn. star precedes and is siuth 9"

260 | 6981 [15.5] | 3393 [16.1]

~~[[striketthrough]]261[[/striketthrough]]~~ | Omit
remark made Book X p. 204

261 | 6988 [14.7] | 3393 [15.4]

262 | 6981~~[[striketthrough]]8[[/striketthrough]]~~ [14.4] | 3393 [15.0]

263 | 3393 [14.4] | 6981 [15.1]

264 | 3393 [14.5] | 6981 [15.7]

265 | 6981 ~~[[striketthrough]]6981[[/striketthrough]]~~ [15.0] 6985 | 3393 [15.5] 6986 [15.7]

266 | 6985 [15.0] 6913~~[[striketthrough]]88[[/striketthrough]]~~ 6982 [14.8] |

6986 [15.4] 6980 7016 6988

268 | 3393 [14.8] | 6981 [15.5]

269 | 6981 [15.0] | 3393 [15.8]

270 | 6860 [14.4] 6982 [14.2] | ~~[[striketthrough]]6[[/striketthrough]]~~ 3393 [15.0]

271 | 3393 [15.0] | 6981 [15.8]

272 | 3393 [13.7] 8043 [14.6] | 6981 [<16.5]

~~[[striketthrough]]273[[/striketthrough]]~~ | Omit remark p. 205 Bk 10, except "long period."

273 | See page 33

274 | ~~[[striketthrough]]3393 [14.5] [[/striketthrough]]~~ 7016 6981 [14.2] 6984 [14.0] | ~~[[striketthrough]]6981[[/striketthrough]]~~ 3393 [14.7] 6986

[[end page]]

[[start page]]

[[preprinted]]123[[/preprinted]]

Friday, February 1, 1907

The Small Magellanic Cloud

Var | Br | Ft

275 | 3393 [13.7] | 6981 [15.0]

276 | 3393 [14.0] | 6981 [15.0]

279 | 6982 [15.9] | 6981 ~~[[striketthrough]]5[[/striketthrough]]~~]

Already est. ~~[[striketthrough]]280[[/striketthrough]]~~ | 6988 [14.0] 6986 | 3393 [14.4] 6980 [14.6]

" ~~[[striketthrough]]281[[/striketthrough]]~~ | 6860 [14.8] | 3393 [15.4]

282 | 6860 [14.7] | 3393 [15.8]

283 | 6860 [14.1~~[[striketthrough]]4[[/striketthrough]]~~] | 7016 | 3393 [6985 [14.7]

285 | 3393 [15.7~~[[striketthrough]]0[[/striketthrough]]~~] | 6860

[16.2~~[[striketthrough]]4[[/striketthrough]]~~] | 6

286 | 6985 [15.2] | 6986 [16.2]

A sixteen magnitude star precedes 7"

287 | 3393 [15.1] | 6860 [16.2]

288 | 6860 [14.2] | 6986 [14.8]

289 | 6860 [13.8] | 3393 [14.4]

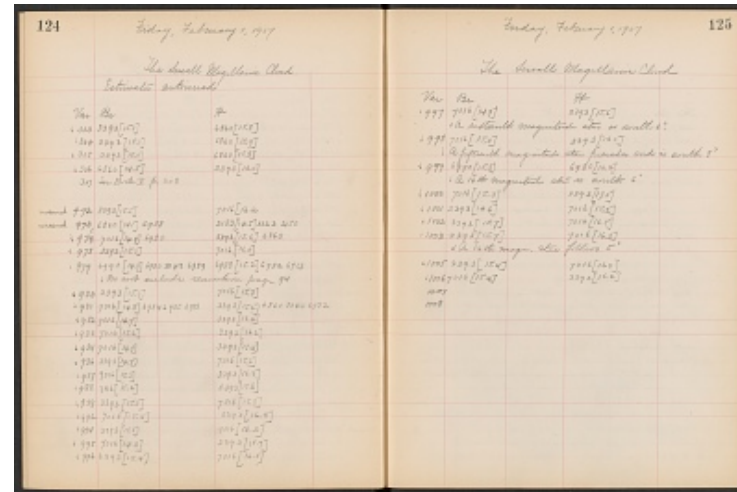
measured ~~292~~ | 6860 [14.7] | 3393 [15.8]
 293 | 6860 [14.7] | 3393 [15.8]
 294 | 3393 [15.0] | 6860 [16.0]
 297~~5~~ | 6860 ~~3393~~
 [14.2] | [14.3] 6986 [14.0] | 6913 [14.6]
 295 | 6989 [14.5] 6990 | 6986 [16.1] 6988
 296 | 6988 [15.3] | 6913 [16.2] 6989
 | A 16th magnitude star is north of No. 295 by 6" There are probably
 one or more other stars within a second or two.
 298 | 3393 [15.1] | 6860 [16.5]
 A fifteenth magnitude star is north 9". Omit remark p. 207
 measured ~~300~~ | 3393 [14.4] | 6860
 [16.0] ~~4~~]
 301 | 6860 [14.3] 6990 [14.1] | 3393 [14.6] 2183 2189
 302 | 6860 [14.7] | 3393 [15.8]

Project PHaEDRA - Henrietta Swan Leavitt #12
 Transcribed and Reviewed by Digital Volunteers
 Extracted Sep-06-2022 02:41:59

[[preprinted]] 124 [[/preprinted]]
 Friday, February 1, 1907
 The Small Magellanic Cloud
 Estimates continued

Var | Br | H-
 303 | 3393 [15.1] | 6860 [15.8]
 304 | 3393 [15.1] | 6860 [15.9]
 305 | 3393 [15.0] | 6860 [15.8]
 306 | 6860 [14.5] | 3393 [16.0]
 307 | See Book X p. 208
 ^[[measured]] [[/measured]] ~~972~~ | 3393 [15.5] | 7016 [16.2]
 ^[[measured]] [[/measured]] ~~973~~ | 6860 [14.1] | 6988 | 2183 [14.5] | 3323 | 2150
 975 ~~4~~ | 7016 [14.9] | 6980 | 3393 [15.6] | 6860
 978 | 3393 [15.0] | 7016 [16.0]
 979 | 6990 [14.7] | 6980 8043 6989 | 6988 [15.2] | 6982 6913
 Do not include remark on page 94
 980 | 3393 [15.0] | 7016 [15.8]
 981 | 7016 [14.8] | 6984 6985 6988 | 7016 [15.8]
 982 | 7016 [14.7] | 3393 [15.2] | 6860 8043 6982
 983 | 7016 [15.2] | 3393 [16.2]
 984 | 7016 [14.7] | 3393 [15.4]
 986 | 3393 [14.7] | 7016 [15.6]
 987 | 7016 [15.3] | 3393 [16.3]
 988 | 7016 [15.2] | 3393 [15.8]
 989 | 3393 [15.0] | 7016 [15.8]
 992 | 7016 [15.4] | 3393 [16.5]
 994 | 3393 [15.5] | 7016 [16.2]
 995 | 7016 [14.8] | 3393 [15.7]
 996 | 3393 [15.4] | 7016 [16.5]
 [[end page]]
 [[start page]]
 [[preprinted]] 125 [[/preprinted]]
 Friday, February 1, 1907
 The Small Magellanic Cloud
 Estimates continued

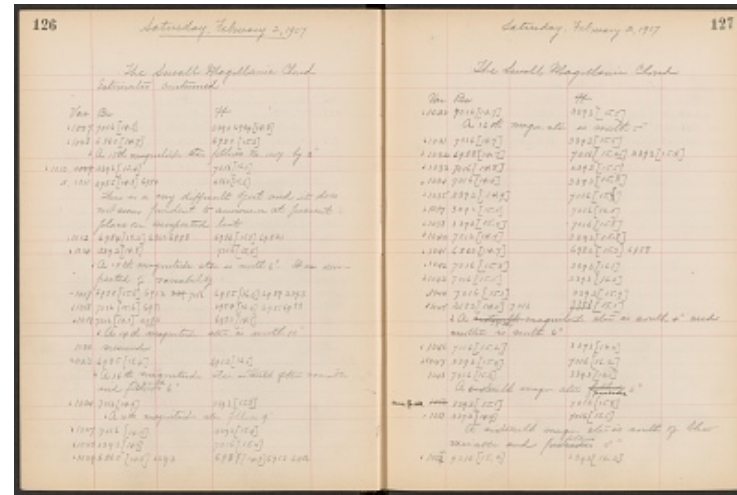
Var | Br | H-
 997 | 7016 [14.9] | 3393 [15.6]
 A sixteenth magnitude star is south 6".
 998 | 7016 [14.9] | 3393 [15.6]
 A fifteenth magnitude star precedes and is south 8"
 999 | 6990 [15.3] | 6980 [16.2]
 A 16 H- magnitude star is south 6"
 1000 | 7016 [15.3] | 3393 [17.0]
 1001 | 3393 [14.6] | 7016 [15.2]
 1002 | 3393 [15.7] | 7016 [16.3]
 1003 | 3393 [15.7] | 7016 [16.3]
 A 16th magn. star follows 5"
 1005 | 3393 [15.4] | 7016 [16.0]
 1006 | 7016 [15.4] | 3393 [16.2]
~~1007~~
~~1008~~
 [[end page]]



[[preprinted]]126[[/preprinted]]
[[underline]]Saturday, February 2, 1907[[underline]]
The Small Magellanic Cloud
Estimates continued

Var | Br | Ft
1007 | 7016 [14.3] | 3393 6984 [14.8]
1008 | 6860 [14.7] | 6980 [15.3]
| A 15th magnitude star follows No.1007
1010 ~~[[strikethrough]]1009[[/strikethrough]]~~ | 3393 [15.4] | 70016 [16.0]
1011 | 6985 [14.8] 6984 | 6860 [15.3]
This is a very difficult object and it does not seem prudent to announce
at present; place on suspected list
1012 | 6984 [15.0] 6860 6988 | 6986 [15.8] 6982
1014 | 3393 [14.8] | 7016 [15.5]
| A 15th magnitude star is north 6". It is suspected of variability.
1017 | 6980 [15.6] 6913 ~~[[strikethrough]]339[[/strikethrough]]~~ | 7016 | 6985
[16.0] 6989 3393
1018 | 7016 [15.6] 6981 | 6984 [16.0] 6985 6988
1019 | 7016 [13.1] ~~[[underline]]2183[[/underline]]~~ | 6980 [14.1]
A 14th magnitude star is north 10"
1020 | measured
1023 | 6985 [15.4] | 6913 [16.0]
A 16th magnitude star follows ~~[[strikethrough]]is north[[/strikethrough]]~~
other variable and is north ~~[[strikethrough]]follows[[/strikethrough]]~~ 6"
1024 | 7016 [14.7] | 3393 [15.4]
A 16th magnitude star follows 9"
1027 | 7016 [14.7] | 3393 [15.4]
1028 | 3393 [14.7] | 7016 [15.4]
1029 | 6860 [14.5] 3393 | 6989 [14.9] 6913 6986
[[end page]]
[[start page]]
[[preprinted]]127[[/preprinted]]
Saturday, February 2, 1907
The Small Magellanic Cloud

Var | Br | Ft
1030 | 9016 [14.7] | 3893 [15.5]
A 16th magn. star is north 5"
1031 | 7016 [14.7] | 3393 [15.5]
1032 | 6988 [14.7] | 7016 [15.2] 3393 [15.4]
1033 | 7016 [14.8] | 3393 [15.5]
1034 | 7016 [14.4] | 3393 [15.3]
1035 | 3393 [14.9] | 7016 [15.8] ~~[[strikethrough]]9[[/strikethrough]]~~]
1037 | 3393 [15.0] | 7016 [16.0]
1038 | 3393 [15.0] | 7016 [15.8]
1040 | 7016 [14.7] | 3393 [15.8]
1041 | 6860 [14.7] | 6980 [15.3] 6988
1042 | 7016 [15.3] | 3393 [16.1]
1043 | 7016 [15.0] | 3393 [16.0]
1044 | 7016 [15.1] | 3393 [15.9]
1045 | 2183 [14.0] 7016 | 3393 ~~[[strikethrough]]7016[[/strikethrough]]~~
[15.1]
A ~~[[strikethrough]]sixteenth[[/strikethrough]]~~ 15th magnitude star is
south 4" and another is north 6"
1046 | 7016 [15.2] | 3393 [16.0]
1047 | 3393 [15.2] | 7016 [16.2]
1048 | 7016 [15.3] | 3393 [16.1]
A sixteenth magn. star ~~[[strikethrough]]follows[[/strikethrough]]~~
precedes 6"



meas. p. 112 ~~1050~~ | 3393 [15.1] | 7016

[15.8]

1051 | 3393 [14.9] | 7016 [15.5]

A sixteenth magn. star is south of the variable and

~~proceeds~~ follows 5"

1052 | 7016 [15.2] | 3393 [16.2]

Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59

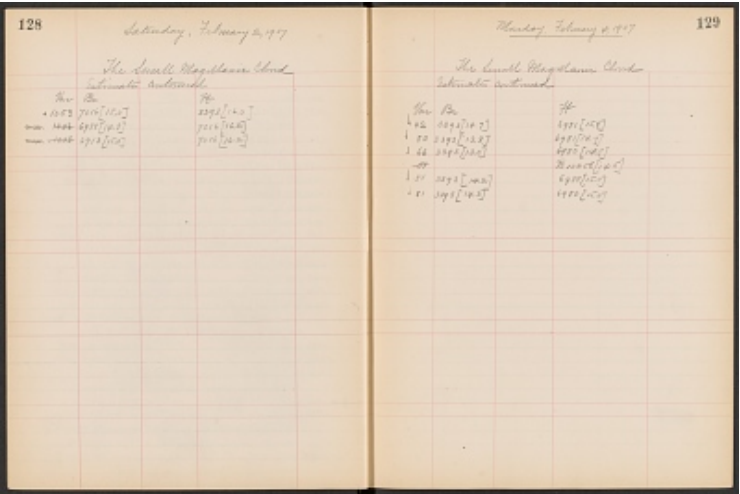
[[preprinted]] 128 [[/preprinted]]
Saturday, February 2, 1907
The small Magellanic Cloud
Estimates Continued

[[column 1]]
Var | Br
1053 | 7106[15.0]
meas. ~~1056~~ 6988[14.8]
meas. ~~1058~~ 6913[15.0]
[[/column 1]]

[[column 2]]
Ft
3393[16.0]
7016[16.2]
7016[16.2]
[[/column 2]]
[[end page]]
[[start page]]

[[preprinted]] 128 [[/preprinted]]
Saturday, February 2, 1907
The small Magellanic Cloud
Estimates Continued

Var | Br | Ft
42 | 3393[14.7] | 6981 [15.8]
80 | 3393[13.8] | 6981 [14.7]
66 | 3393[13.0] | 6980 [14.5]
~~51~~ | ~~3393~~ [14.2] | ~~6988~~ [15.0]
51 | 3393[14.3] | 6980[15.0]



Project PHaEDRA - Henrietta Swan Leavitt #12
Transcribed and Reviewed by Digital Volunteers
Extracted Sep-06-2022 02:41:59



Smithsonian Institution

Harvard-Smithsonian Center for Astrophysics

The mission of the Smithsonian is the increase and diffusion of knowledge - shaping the future by preserving our heritage, discovering new knowledge, and sharing our resources with the world. Founded in 1846, the Smithsonian is the world's largest museum and research complex, consisting of 19 museums and galleries, the National Zoological Park, and nine research facilities. Become an active part of our mission through the Transcription Center. Together, we are discovering secrets hidden deep inside our collections that illuminate our history and our world.

Join us!

The Transcription Center: <https://transcription.si.edu>

On Facebook: <https://www.facebook.com/SmithsonianTranscriptionCenter>

On Twitter: [@TranscribeSI](https://twitter.com/TranscribeSI)

Connect with the Smithsonian

Smithsonian Institution: www.si.edu

On Facebook: <https://www.facebook.com/Smithsonian>

On Twitter: [@smithsonian](https://twitter.com/smithsonian)