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## **Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV**

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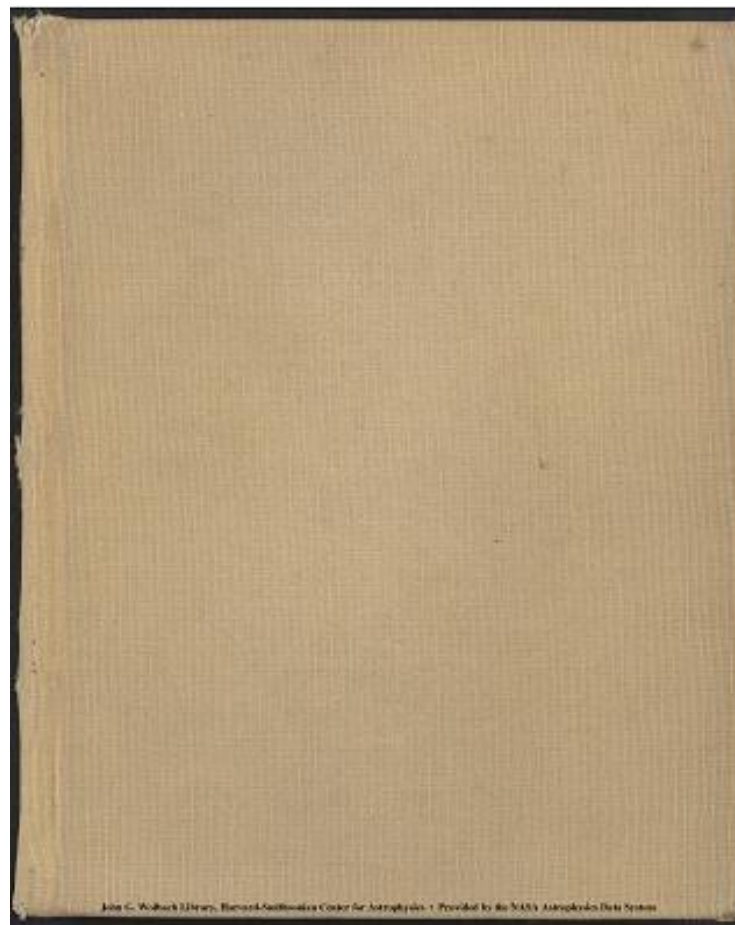
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[[cover page]]



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30, MWF 193 #IV  
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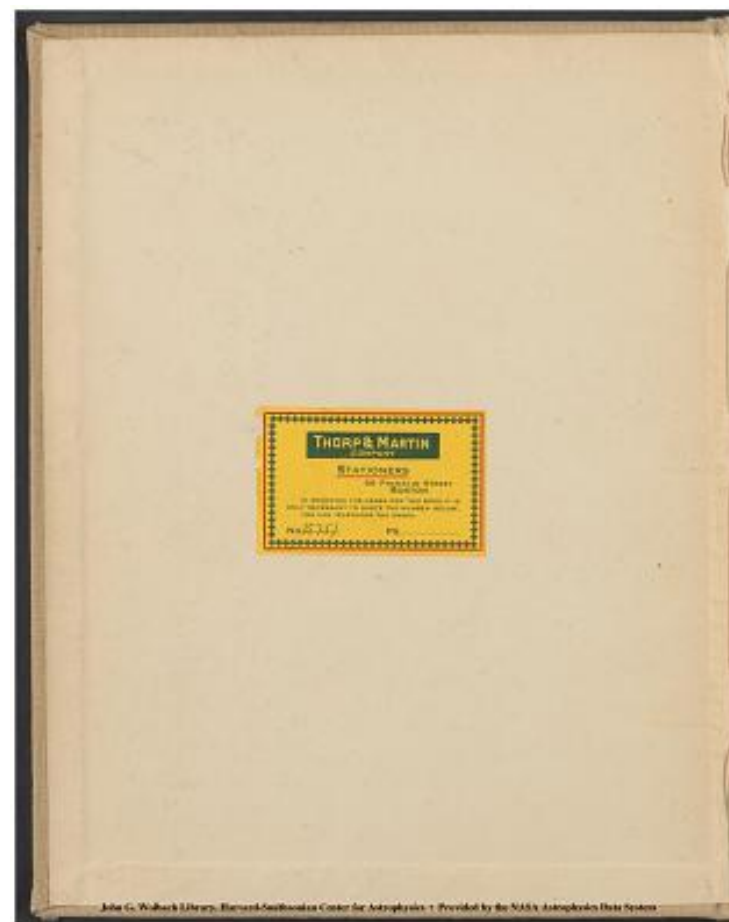
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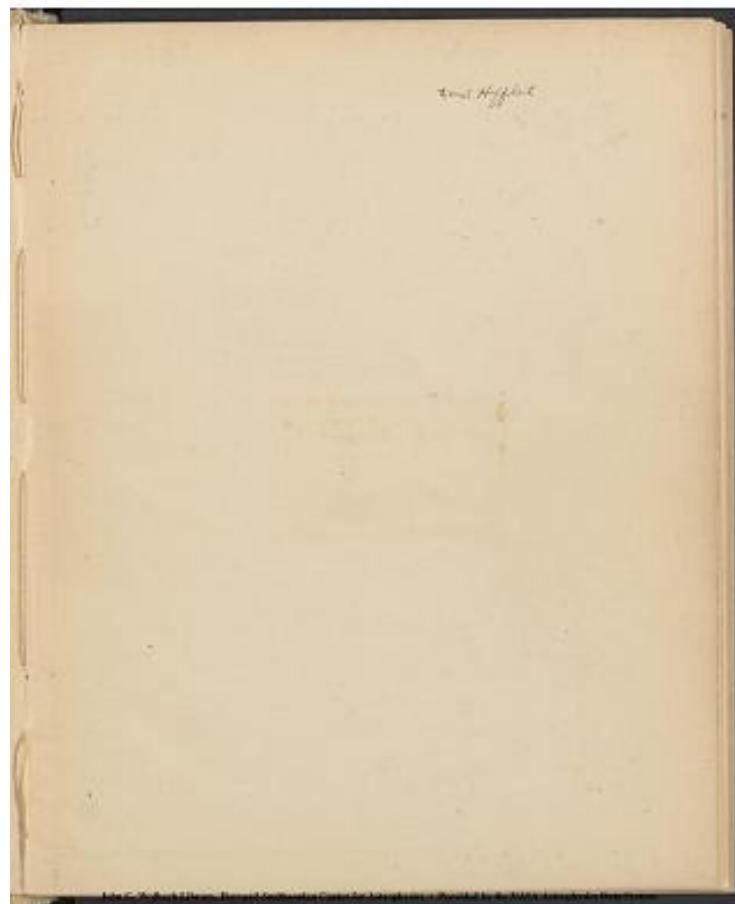
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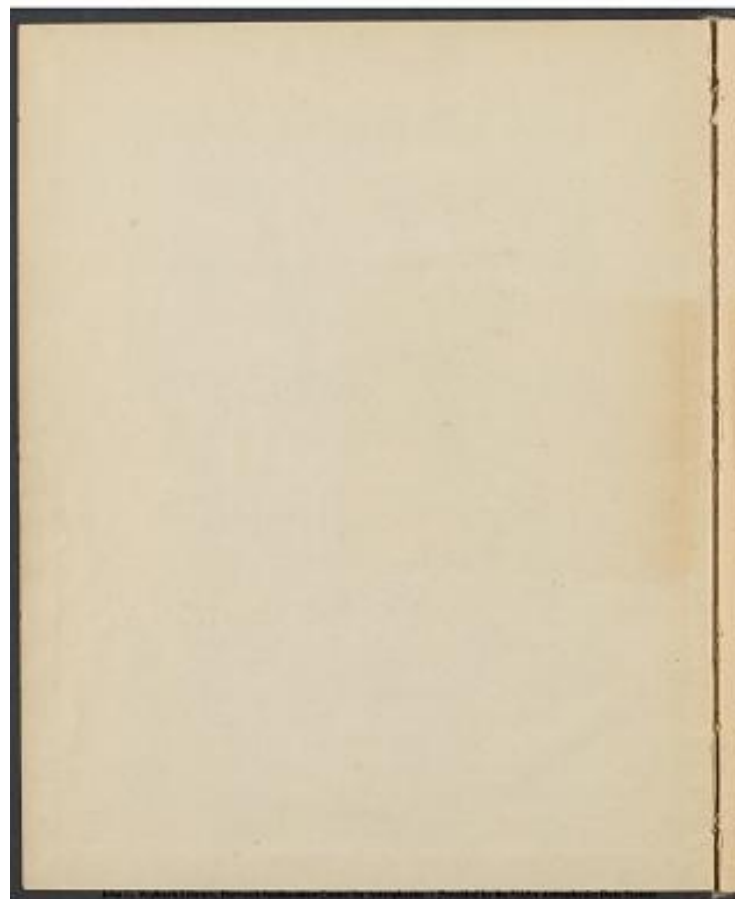
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Dorrit Hoffleit



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30, MWF 193 #IV  
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# Index to Book IV

MWF175 ----- Page  
 -Positions ----- 4  
 -More Magnitudes --- 90

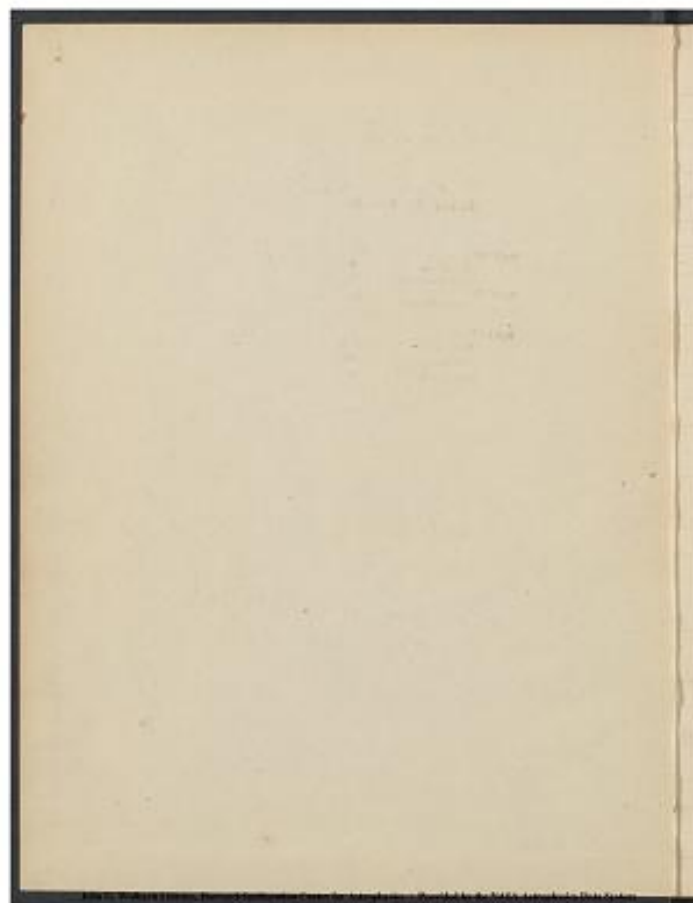
MWF 30  
 -Magnitudes ----- 95-129

MWF193  
 -Plate Lists ----- 130  
 -Old Variables ----- 140  
 -Discovery ----- 156

| Index to Book IV |        |
|------------------|--------|
| MWF 175          | Page   |
| Positions        | 4      |
| More Magnitudes  | 90     |
| MWF 30           |        |
| Magnitudes       | 95-129 |
| MWF 193          |        |
| Plate Lists      | 130    |
| Old Variables    | 140    |
| Discovery        | 156    |

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 Transcribed and Reviewed by Digital Volunteers  
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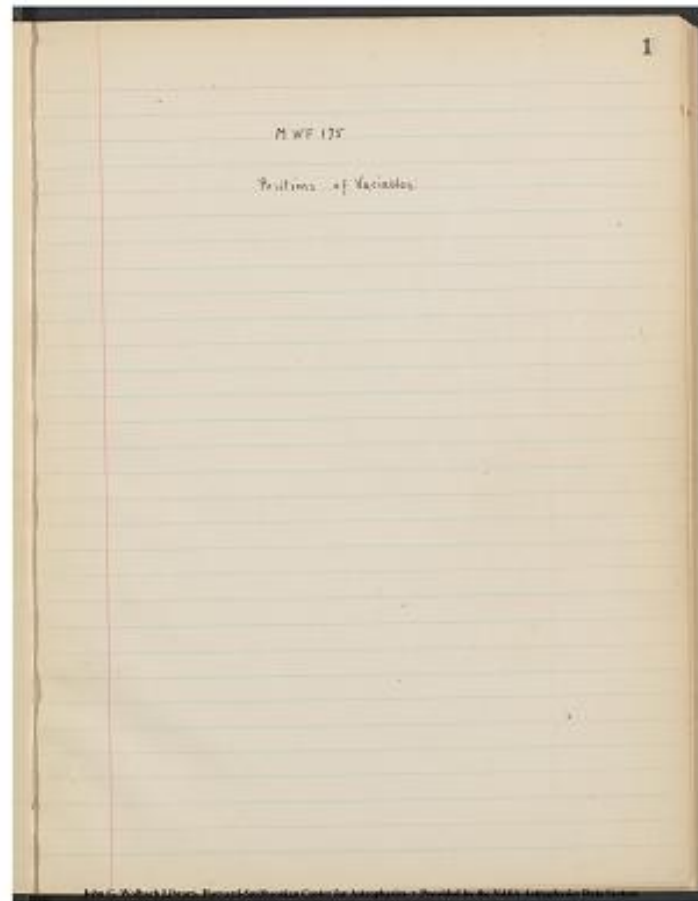


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1

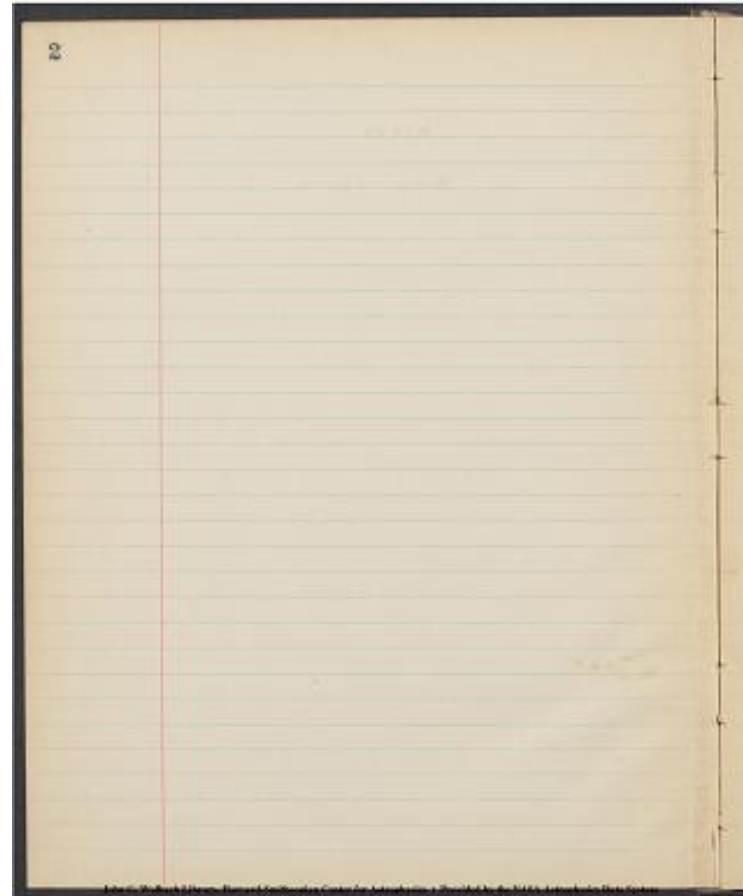
MWF 175

Positions of Variables

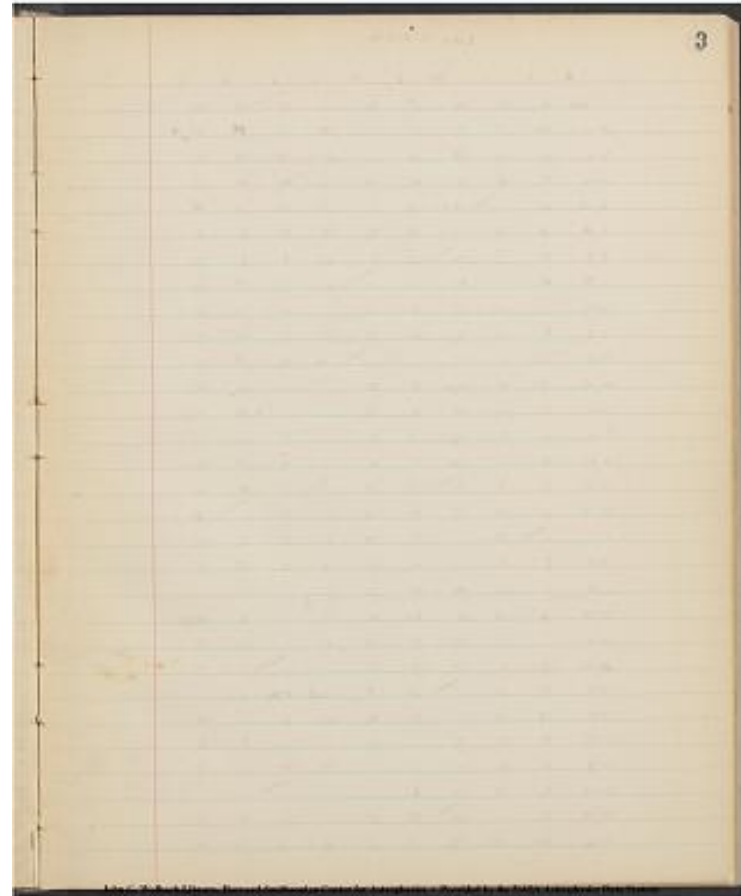


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30, MWF 193 #IV  
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30, MWF 193 #IV  
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## Index to Positions

[[11 column table]]

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

0 | Page | 11 | 43 | 38 | 61 | 46 | (58) | 47 | 49 | 57 |  
 10 | 39 | 51 | 38 | 18 | 20 | 55 Nor | 35 | 31 | 34 | 22, 34 |  
 20 | 56 | 50 | 56 | 78 | 76 | RSTrd | 80 | 14 | 82 | 15 |  
 30 | 76 | 75 | 69 | 70 | 68 | 84 | 61 | 86 | 54 | 56 |  
 40 | 21 | 65 | \ | 26,64 | 64 | 25 | (58) | 43 | 31 | 35 |  
 50 | 34 | 36 | 37 | 19 | 37 | 19 | 79 | 41 | 41 | 40 |  
 60 | 77 | 75 | 15 | 13 | \ | 63 | 9 | 62 | 8 | 7 | 86 |  
 70 | 70 | 69 | \ | 42 | 29 | \ | 61 | 63 | 54 | 56 |  
 80 | 46 | 50 | 52 | 39 | 51 | 20 | 18 | 30 | 30 | 14 |  
 90 | 9 | 8 | 86 | 11 | 81 | 82 | 88 | 70 | 68 | 74 |  
 100 | 74 | 75 | 81 | 21 | \ | \ | 51 | 52 | 49 | 49 |  
 110 | 41 | 18 | 80 | 16,80 | 24 | 51 | \ | 19 | 19 | 24 |  
 120 | 63 | 85 | 87 | 66 | 22 | 52 | 31 | \ | 13 | 13,81 |  
 130 | 16 | 10 | 8 | ~~[[/strikethrough]] 57, [[/strikethrough]] 65 | 57 | 28 | \ |~~  
 48 | 66 | \ |  
 140 | 60 | 25 | 16 | 13 | 11 | 12 | 16 | ~~[[/strikethrough]] 23~~  
~~[[/strikethrough]] 34 | 28 | 43 |~~  
 150 | 38 | 37 | 74 | 35 | \ | 43 | 87 | \ | 75 | 40 | (59) |  
 160 | 59 | 56 | 55 | 37 | 80 | 22 | 23 | 21 | \ | 17 |  
 170 | asteroid | \ | 78 | \ | 73 | 84 | 6 | 71 | 73 | 73 |  
 180 | 71 | 7 | 26 | 17 | 40 | 55 | 26 | 46 | 29 | 72 |  
 190 | 20 | 31 | 12 | 84 | 18 | 72 | 84 | \ | 27 | \ |  
 200 | 39 | 36 | 27 | 9 | 85 | 68 | \ | 66 | \ | 6 | 10, ~~[[/strikethrough]] 85~~  
~~[[/strikethrough]] |~~  
 210 | 21 | \ | 27 | 45 | 47 | 85 | 87 | \ | 87 | 72 |  
 220 | 88 | 71 | 17 | 79 | 79 | 76 | \ | 27 | 45 |  
 230 | 45 | 47 | 50 | \ | 65 | 38 | \ | 26,64 | 25, ~~[[/strikethrough]] 49~~  
~~[[/strikethrough]] | 15,77 | \ |~~  
 240 | 29 | 54 | 86 | \ | 70 | 42 | 68 | 11 | \ | 41 |  
 250 | 74 | 24 | 57 | 29 | \ | 60 | 60 | 60 | 7 | 6 |  
 260 | 9 | 10 | 12 | 15 | \ | \ | 24 | 23 | 55 | 44 |  
 270 | 45 | 40 | 69 | 23 | 6 | \ | \ | \ | 25 | \ |  
 280 | 48 | 30 | \ | 14 | \ | 78 | 69 | \ | 20 | 71 | 61 |  
 290 | 66 | 55 | 35 | 53 | 54 | 65 | 64 | 62 | 14 | 81 |

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 30, MWF 193 #IV  
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5

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6

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[[7 column table]]

| var | Comparison | 8   | x   | y   |     |
|-----|------------|-----|-----|-----|-----|
| --- | ---        | --- | --- | --- | --- |

|     |      |      |          |          |     |     |                         |
|-----|------|------|----------|----------|-----|-----|-------------------------|
| 274 | -62° | 4766 | 15 34 11 | -62 32.7 | 4.3 | 4.8 | [[symbol - three dots]] |
|-----|------|------|----------|----------|-----|-----|-------------------------|

|          |          |      |     |                 |     |  |
|----------|----------|------|-----|-----------------|-----|--|
| 4785     | 35 24    | 26.2 | 3.5 | 2.7             | 8.8 |  |
| 73       | 6.5      | 7.8  | 7.5 | corner of plate |     |  |
| 15 34 51 | -62 28.5 | 40.3 | 4.2 |                 |     |  |
| 34 51    | 28.5     | 32.8 | 2.3 |                 |     |  |
| 15 34 51 | -62 28.5 | 73.1 |     |                 |     |  |

|          |           |          |          |     |                         |        |
|----------|-----------|----------|----------|-----|-------------------------|--------|
| 208      | -62. 4867 | 15 39 04 | -62 42.6 | 9.8 | 5.9                     | corner |
| 4932     | 42 06     | 33.0     | 10.3     | 5.3 | [[symbol - three dots]] |        |
| 182      | 9.6       | 20.1     | 11.2     |     |                         |        |
| 15 40 33 | 88.7      | 5.1      |          |     |                         |        |
| 40 33    | -62 37.5  | 93       | 4.5      |     |                         |        |
| 15 40 33 | -62 37.5  | 182      |          |     |                         |        |

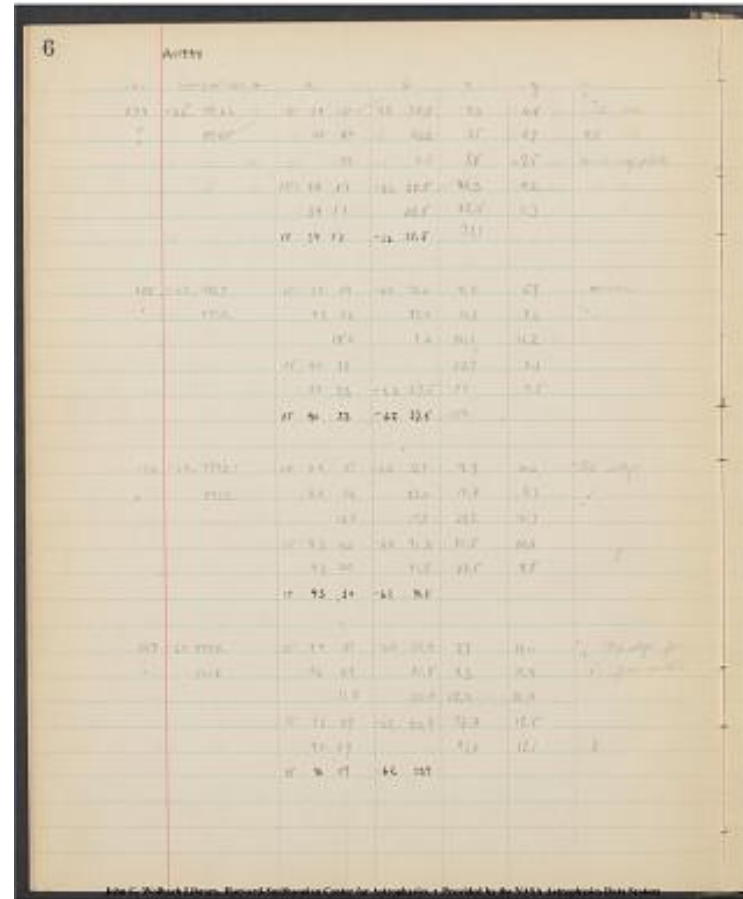
|          |           |          |          |     |                         |          |
|----------|-----------|----------|----------|-----|-------------------------|----------|
| 176      | -62. 4992 | 15 44 51 | -62 52.4 | 9.9 | 10.0                    | top edge |
| 4932     | 42 06     | 33.0     | 10.4     | 8.3 | [[symbol - three dots]] |          |
| 165      | 19.4      | 20.3     | 18.3     |     |                         |          |
| 15 43 30 | -62 41.8  | 80.5     | 10.6     |     |                         |          |
| 43 30    | 41.8      | 84.5     | 8.8      | 8   |                         |          |
| 15 43 30 | -62 41.8  |          |          |     |                         |          |

|     |          |          |          |     |      |                         |
|-----|----------|----------|----------|-----|------|-------------------------|
| 259 | -62.4992 | 15 44 51 | -62 52.4 | 7.9 | 19.0 | [[symbol - three dots]] |
|-----|----------|----------|----------|-----|------|-------------------------|

Top edge far |

|          |          |      |      |      |             |  |
|----------|----------|------|------|------|-------------|--|
| 5018     | 46 49    | 21.8 | 4.3  | 12.4 | from center |  |
| 118      | 30.6     | 12.2 | 31.4 |      |             |  |
| 15 46 07 | -62 33.9 | 76.4 | 18.5 |      |             |  |
| 46 07    | 41.6     | 12.1 | 8    |      |             |  |
| 15 46 07 | -62 33.9 |      |      |      |             |  |

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7

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[[7 columned table]]



| Var | Comparison | Alpha | Delta |     |     |     |
|-----|------------|-------|-------|-----|-----|-----|
| --- | ---        | ---   | ---   | --- | --- | --- |

|               |          |              |              |              |               |                    |
|---------------|----------|--------------|--------------|--------------|---------------|--------------------|
| 68            | -62.4932 | 15 42 06     | -62 33.0     | 7.4          | 20.0          | ?                  |
| [[checkmark]] | -61.5366 | 46 1         | <del>5</del> | <del>5</del> | <del>4</del>  |                    |
| 61            | 53.3     | 19.6         | 21.8         | <del>5</del> | <del>5</del>  |                    |
|               | 249      | <sup>8</sup> | 39.7         | 27.0         | 41.8          | verify for comp    |
|               | 15 43 14 | 62 14.0      | 68           | 19.0         |               |                    |
|               | 43 14    | 62 14.0      | 180          | 20.7         |               |                    |
|               | 15 43 14 | -62 14.0     |              |              |               |                    |
| 181           | same     |              | 10.5         | 16.6         |               |                    |
| [[checkmark]] |          |              | 16.7         | 25.2         |               |                    |
|               | 27.2     | 41.8         |              |              |               |                    |
|               | 15 43 42 | 95+          | 15.8         | -            |               |                    |
|               | 43 42    | 62 17.3      | 152          | 24.0         |               |                    |
|               | 15 43 42 | -62 17.3     |              |              |               |                    |
| 258           | same     |              | 19.          | <del>5</del> | <del>3</del>  | 13.2 <sup>11</sup> |
|               | 7.       | <del>6</del> | <del>7</del> | 28.6         | <sup>7</sup>  |                    |
|               | 27.1     | 41.8         |              |              |               |                    |
| [[checkmark]] | 15 45 04 | <sup>3</sup> | 62 20.5      | 178          | <sup>7</sup>  | 12.5               |
|               | 45 04    | <sup>3</sup> | 62 20.5      | 69+          | <sup>71</sup> | 27.2               |
|               | 15 45 03 | -62 20.5     |              |              |               |                    |

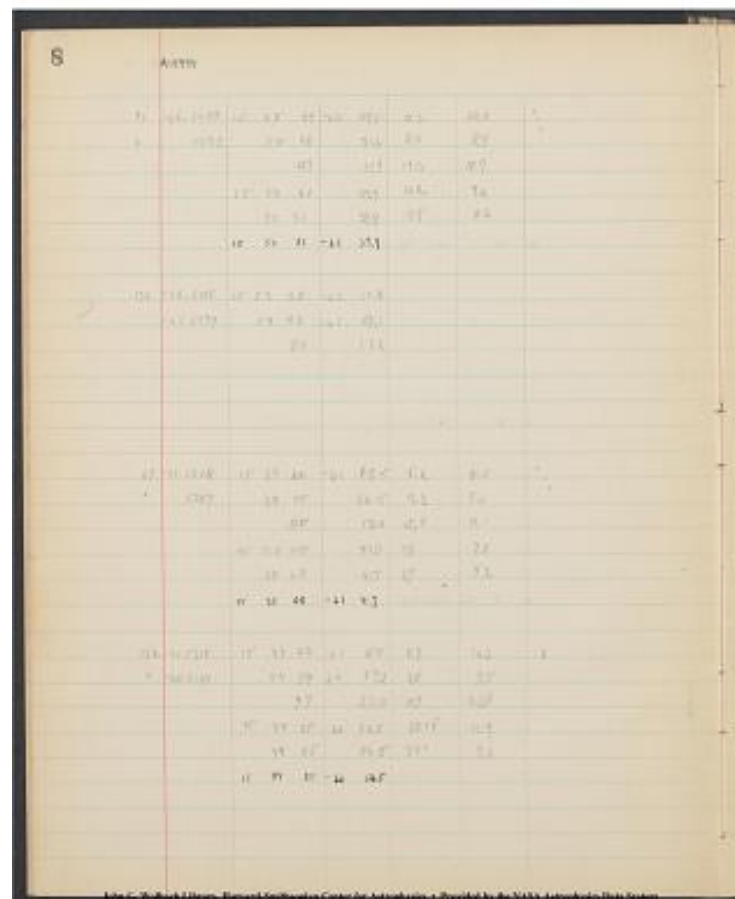
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8 A12994

[[7 column table]]  
 91 | -62.5049 | 15 48 39 | -62 49.5 | 11.3 | 10.0 |  |  
 [[symbol - checkmark]] | 5073 | 50 48 | 31.6 | 3.0 | 8.7 | |  
 | 129 | 17.9 | 14.3 | 18.7 | |  
 | 15 50 21 | | 39.9 | 102 | 9.6 | |  
 | 50 21 | 39.9 | 27 | 8.3 | |  
 | 15 50 21 | -62 39.9 | | | |  
 136 | -62.5108 | 15 53 28 | -62 14.3 | | | |  
 omit | -61.5497 | 54 48 | -61 57.1 | | | |  
 | 80 | 17.2 | | | |  
 67 | -61.5224 | 15 37 20 | -61 49.5 | 5.2 | 8.5 |  |  
 [[symbol - checkmark]] | .5257 | 39 15 | 36.5 | 7.3 | 5.6 | |  
 | 115 | 13.0 | 12.5 | 14.1 | |  
 | 15 38 08 | 41.7 | 48 | 7.8 | |  
 | 38 08 | 41.7 | 67 | 5.2 | |  
 | 15 38 08 | -61 41.7 | | | |  
 132 | -61.5318 | 15 43 22 | 61 12.4 | 6.9 | 16.3 | 8 |  
 [[symbol - checkmark]] | -61.6164 | | 44 59 | 60 49.2 | 38 | 7.5 | |  
 | 97 | 23.2 | 10.7 | 23.8 | |  
 | 15 44 25 | 60 56.5 | 62 + 1 | 15.9 | |  
 | 44 25 | 56.5 | 34+ | 7.3 | |  
 | 15 44 25 | -60 56.5 | | | |

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[[6 column table]]  
|---|---|---|---|---|---|

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 260 | -61.5366 | 15 46 15 | 61 53.3  | 2.6  | 5.5  |
|     | 5397     | 48 16    | 36.3     | 11.1 | 12.4 |
|     |          | 121      | 17.0     | 13.7 | 17.9 |
|     |          | 15 46 38 | 22.9     | 5.2  |      |
|     |          | 46 38    | -61 48.1 | 9.8  | 11.8 |
|     |          | 15 46 38 | -61 48.1 | 121  |      |

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 203 | -61.5397 | 15 48 16 | 61 36.3  | 11.3 | 13.0 |
|     | -60.6249 | 50 41    | 60 57.4  | 4.9  | 27.1 |
|     |          | 145      | 38.9     | 16.2 | 40.1 |
|     |          | 49 57    | 61 23.7  | 101  | 12.6 |
|     |          | 15 49 57 | 61 23.7  | 44   | 26.3 |
|     |          | 15 49 57 | -61 23.7 |      |      |

|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 90 | -61.5452 | 15 51 37 | -61 37.1 | 5.3  | 7.3  |
|    | 5481     | 53 41    | 11.4     | 9.0  | 19.2 |
|    |          | 124      | 25.7     | 14.3 | 26.5 |
|    |          | 15 52 23 | 61 30.0  | 46   | 7.1  |
|    |          | 15 52 23 | -61 30.0 |      |      |

|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 65 | -60.6249 | 15 50 41 | 60 57.4  | 10.3 | 5.4  |
|    | 6218     | 48 17    | 42.7     | 8.2  | 8.6  |
|    |          | 144      | 14.7     | 18.5 | 14.0 |
|    |          | 15 49 21 | 60 51.7  | 80   | 5.7  |
|    |          | 49 21    | 51.7     | 64   | 9.0  |
|    |          | 15 49 21 | -60 51.7 |      |      |

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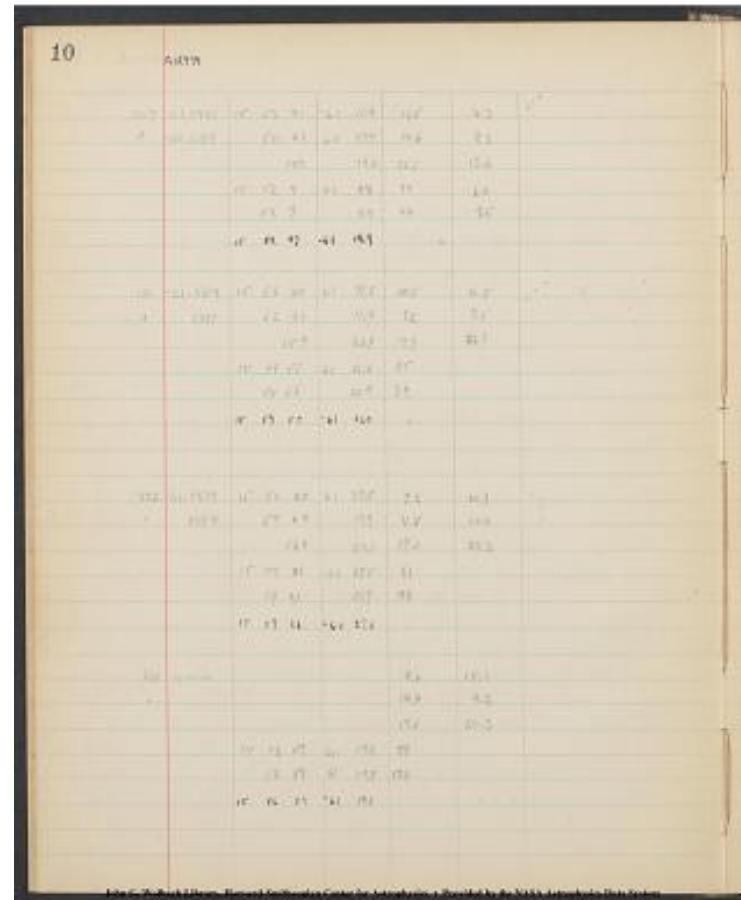
10

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[[6 column table]]  
 |---|---|---|---|---|---|

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 209 | -61.5481 | 15 53 41 | -61 11.4 | 11.5 | 6.3  |
|     | -60.6249 | 50 41    | 60 57.4  | 10.6 | 7.3  |
|     | 180      | 14.0     | 22.1     | 13.6 |      |
|     | 15 52 7  | 61 04.9  | 94       | 6.5  |      |
|     | 52 7     | 4.9      | 86       | 7.5  |      |
|     | 15 52 07 | -61 04.9 |          |      |      |
| 131 | -61.5519 | 15 56 20 | 61 37.8  | 10.5 | 16.8 |
|     | 5481     | 53 41    | 11.4     | 92   | 9.5  |
|     | 159      | 26.4     | 19.7     | 26.3 |      |
|     | 15 54 55 | 61 21.0  | 85       |      |      |
|     | 54 55    | 20.9     | 74       |      |      |
|     | 15 54 55 | -61 21.0 |          |      |      |
| 322 | -61.5579 | 15 56 20 | 61 37.8  | 7.2  | 10.3 |
|     | 5554     | 59 00    | 17.7     | 11.8 | 10.0 |
|     | 160      | 20.1     | 19.0     | 20.3 |      |
|     | 15 57 21 | 61 27.5  | 61       |      |      |
|     | 57 21    | 27.7     | 99       |      |      |
|     | 15 57 21 | -61 27.6 |          |      |      |
| 261 | same     |          | 4.6      | 18.1 |      |
|     |          | 14.4     | 2.2      |      |      |
|     |          | 19.0     | 20.3     |      |      |
|     | 15 56 59 | 61 19.7  | 39       |      |      |
|     | 56 59    | 61 19.9  | 121      |      |      |
|     | 15 56 59 | -61 19.8 |          |      |      |

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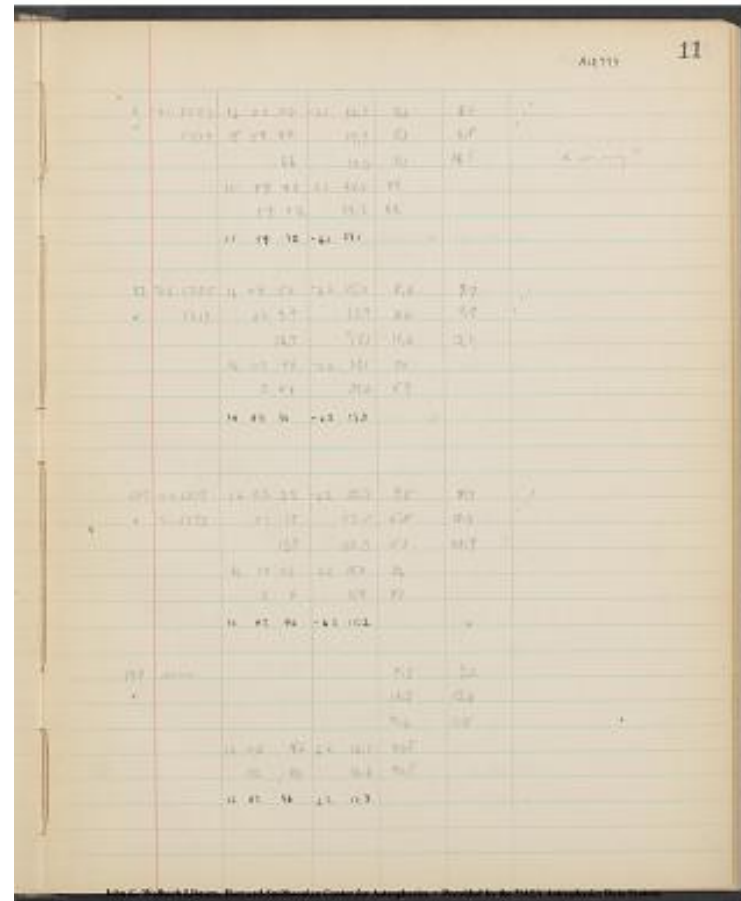
|      |          |          |          |      |                  |
|------|----------|----------|----------|------|------------------|
| 1    | -61.5563 | 16 00 06 | -61 32.0 | 3.0  | 8.0              |
| 5554 | 15 59 00 | 17.7     | 5.1      | 6.5  |                  |
|      | 66       | 14.3     | 8.1      | 14.5 | [[symbol]]wrong? |
|      | 15 59 42 | 61 24.0  | 24       |      |                  |
|      | 59 42    | 24.2     | 42       |      |                  |
|      | 15 59 42 | -61 24.1 |          |      |                  |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 93   | -62.5225 | 16 04 56 | -62 45.0 | 8.0  | 7.9 |
| 5217 | 02 49    | 32.9     | 6.6      | 4.7  |     |
|      | 127      | 12.1     | 14.6     | 12.6 |     |
|      | 16 03 46 | -62 37.1 | 70       |      |     |
|      | 3 46     | 37.6     | 57       |      |     |
|      | 16 03 46 | -62 37.4 |          |      |     |

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 247 | -62.5219 | 16 03 32 | -62 23.3 | 9.8  | 8.3  |
|     | -61.5573 | 01 15    | 03.0     | 5.8  | 12.4 |
|     | 137      | 20.3     | 15 6     | 20.7 |      |
|     | 16 02 06 | 62 15.0  | 86       |      |      |
|     | 2 6      | 15.4     | 51       |      |      |
|     | 16 02 06 | -62 15.2 |          |      |      |

|     |          |         |      |     |  |
|-----|----------|---------|------|-----|--|
| 144 | same     |         | 5.3  | 7.2 |  |
|     |          | 10.3    | 13.6 |     |  |
|     |          | 15.6    | 20.8 |     |  |
|     | 16 02 46 | 62 16.1 | 46.5 |     |  |
|     | 02 46    | 16.6    | 90.5 |     |  |
|     | 16 02 46 | 62 16.3 |      |     |  |

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12

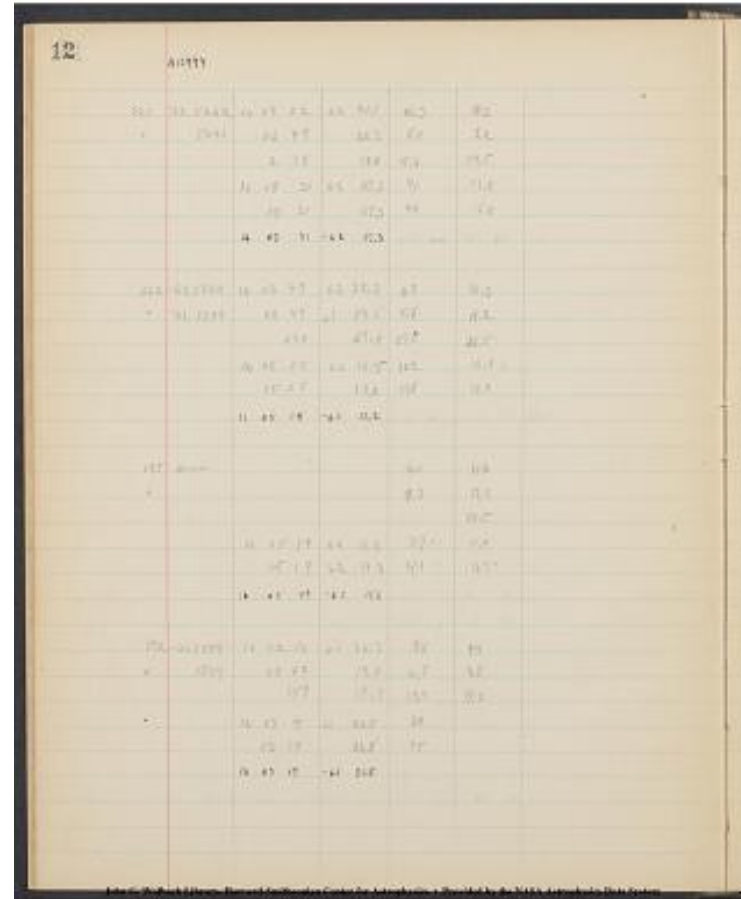
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[[6 column table]]  
 |---|---|---|---|---|---|

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321|-62.5262|16 09 02|62 41.1|10.3|14.3|
| 5240| 06 47| 22.3|5.0|5.2|
| 2 15| 18.8|15.3|19.5|
| 16 07 31|62 27.3|91|13.8|
| 07 31| 27.3|44|5.0|
| 16 07 31|-62 27.3| | |
262|-62.5240|16 06 47|62 22.3|4.7|10.3|
|-61.5584| 02 57|61 54.5|15.8|18.2|
| 240| 27.8|27.5|28.5|
| 16 05 05|62 12.3|102|10.0|
| 05 05| 12.2|138|17.7|
| 16 06 06|-62 12.2| | |
145|same| | |10.0|11.3|
| | |17.3|17.2|
| | |28.5|
| 16 05 19|62 11.3|87|11.0|
| 05 19|62 11.3|151|16.7|
| 16 05 19|-62 11.3| | |
192|-61.5579|16 02 13|61 36.3|28|9.4|
| 5599| 04 52| 19.0|11.5|7.8|
| 159| 17.3|19.3|17.2|
| 16 03 17|61 26.9|64| |
| 03 17| 26.8|95| |
| 16 03 17|-61 26.8| | |
  
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13  
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[[6 column table]]  
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|     |          |          |            |          |      |
|-----|----------|----------|------------|----------|------|
| 63  | -61.5600 | 16 05 04 | 61 59.2    | 1.8      | 8.7  |
| 56  | 19       | 07 41    | 28.3       | 17.4     | 21.7 |
|     |          | 157      | 30.9       | 19.2     | 39.4 |
|     |          | 15 05 19 | 50.5       | 15       |      |
|     |          | 05 19    | 50.0       | 142      |      |
|     |          | 15 05 19 | -61 50.2   |          |      |
| 143 | same     |          | 5.9        | 18.9     |      |
|     |          |          | 13.4       | 12.0     |      |
|     |          |          | 30.4       |          |      |
|     |          | 16 05 52 | 40.8       | 48       |      |
|     |          | 5 52     | 40.3       | 10.9     |      |
|     |          | 16 05 52 | -61 70.6   |          |      |
| 128 | same     |          | 13.8       | 15.1     |      |
|     |          |          | 5.5        | 15.2     |      |
|     |          |          | 30.3       |          |      |
|     |          | 16 06 56 | 61 44.1    | 112      |      |
|     |          | 06 54    | 43.5       | 145      |      |
|     |          | 16 06 56 | -61 43.8   |          |      |
|     |          | 28       | 18.5       | 4.5      | 18.1 |
|     |          | 16 11 27 | 62 0.52    | 11       |      |
| 129 | -62.5281 | 16 11 16 | 62 , 09, 4 | 1.8      | 4.2  |
|     | -61.5638 | 11 44    | 61 51.1    | 2.7      | 13.9 |
|     |          |          | 28         | 18.5     | 4.5  |
|     |          |          | 16 11 27   | 62 05.2  | 11   |
|     |          |          | 27         | 05.0     | 17   |
|     |          |          | 16 11 27   | -62 05.1 |      |

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14  
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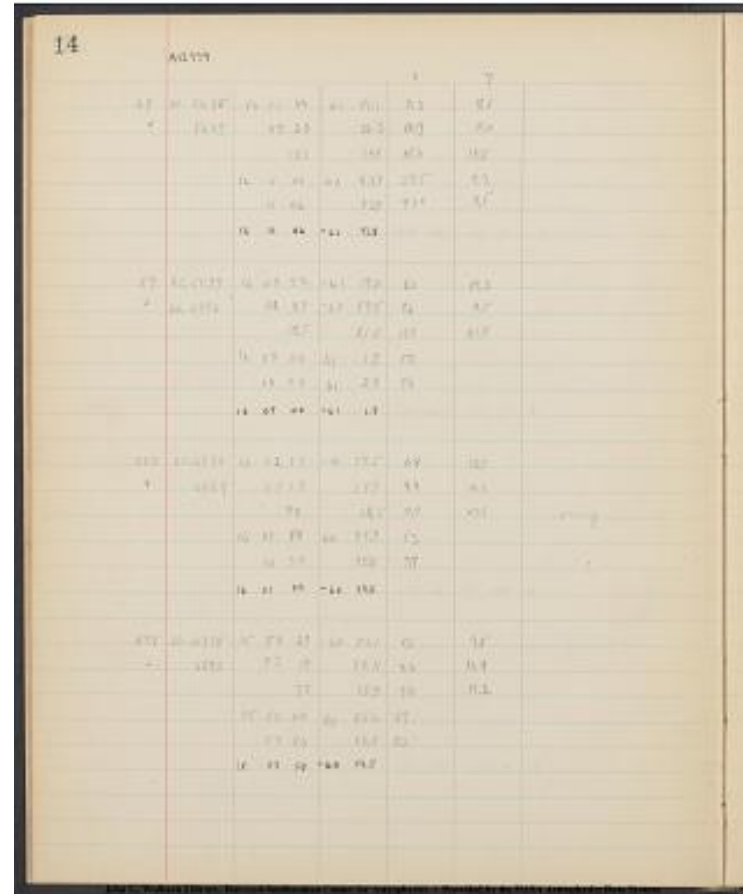
|  |  |  |  |   |   |
|--|--|--|--|---|---|
|  |  |  |  | x | y |
|--|--|--|--|---|---|

|      |          |          |         |      |     |
|------|----------|----------|---------|------|-----|
| 27   | 61.5638  | 16 11 44 | 61 51.1 | 4.3  | 7.8 |
| 5627 | 09 33    | 36.3     | 10.7    | 8.0  |     |
|      | 131      | 14.8     | 15.0    | 15.8 |     |
|      | 16 11 06 | 61 43.8  | 37.5    | 7.3  |     |
|      | 11 06    | 43.8     | 93t     | 7.5  |     |
|      | 16 11 06 | -61 43.8 |         |      |     |

|         |          |          |          |      |      |
|---------|----------|----------|----------|------|------|
| 89      | 61.5599  | 16 04 52 | -61 19.0 | 6.1  | 17.3 |
| 60.6446 | 02 47    | -60 57.5 | 8.6      | 4.5  |      |
|         | 125      | 21.5     | 14.7     | 21.8 |      |
|         | 16 04 00 | 61 1.7   | 52       |      |      |
|         | 04 00    | 61 20    | 73       |      |      |
|         | 16 04 00 | -61 1.8  |          |      |      |

|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 283  | 60.6446  | 16 02 47 | -60 57.5 | 6.4  | 12.8 |
| 6429 | 01 17    | 34.7     | 4.4      | 10.3 |      |
|      | 90       | 22.8     | 10.8     | 23.1 |      |
|      | 16 01 54 | 60 44.7  | 53       |      |      |
|      | 01 54    | 45.0     | 37       |      |      |
|      | 16 01 54 | -60 44.8 |          |      |      |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 298  | 60.6318  | 15 54 29 | -60 51.1 | 5.1  | 7.8 |
| 6293 | 53 17    | 32.4     | 4.3      | 11.4 |     |
|      | 72       | 18.7     | 9.4      | 19.2 |     |
|      | 15 53 50 | 60 43.3  | 39       |      |     |
|      | 53 50    | 43.8     | 33       |      |     |
|      | 15 53 50 | -60 43.5 |          |      |     |



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[[6 column table]]

|---|---|---|---|---|

|62|61.5672|16 17 09|-61 36.0|3.4|6.2|  
 | 5657| 14 08| 18.5|16.2|12.7|  
 | | 181| 17.5|19.6|18.9|  
 | | 16 38|61 30.3|31|5.7|  
 | | 16 16 38| 30.3|150|11.8|  
 | | 16 16 38|-61 30.3| | |

|29|61.5699|16 20 52+|61 47.8|60|3.7|  
 | 5689|19 38.5| 43.1|1.3|1.4|  
 | | 74| 4.7|7.3|5.1|wrong?  
 | | 16 19 52|61 44.1| | |  
 | | 16 19 52| 44.5| | |  
 | | 16 19 52|-61 44.3| | |

|238|61.5709|16 23 18|61 39.5|9.3|11.4| far from center  
 | | 5690|16 17 52| 15.8|13.4|14.6|  
 | | 206| 23.7|22.7|260|  
 | | 16 21 54| 29.1|84|~~[[crossed-out]]~~ 5 ~~[[/crossed-out]]~~ 10.4| Checks  
 by comparison with  
 | | 21 54|61 29.1|122|13.3| 61.5701:16 21 57-61 24.7 and 61.5699  
 | | 16 21 54|-61 29.1| | |

|263|61.5669|16 16 38|-61 06.6|10.6|3.2|  
 | 60.6501| 12 42|60 54.0|17.1|11.3|  
 | | 236| 12.6|27.7|14.5|  
 | | 16 15 08|61 03.8|9.0|2.8|  
 | | 15 08| 03.8|14.6|9.8|  
 | | 16 15 08|-61 03.8| | |

A12994 15

|      |                           |           |          |                            |                                      |
|------|---------------------------|-----------|----------|----------------------------|--------------------------------------|
| 62   | 61.5672                   | 16 17 09  | -61 36.0 | 3.4                        | 6.2                                  |
| 5657 | 14 08                     | 18.5      | 16.2     | 12.7                       |                                      |
|      | 181                       | 17.5      | 19.6     | 18.9                       |                                      |
|      | 16 38                     | 61 30.3   | 31       | 5.7                        |                                      |
|      | 16 16 38                  | 30.3      | 150      | 11.8                       |                                      |
|      | 16 16 38                  | -61 30.3  |          |                            |                                      |
| 29   | 61.5699                   | 16 20 52+ | 61 47.8  | 60                         | 3.7                                  |
| 5689 | 19 38.5                   | 43.1      | 1.3      | 1.4                        |                                      |
|      | 74                        | 4.7       | 7.3      | 5.1                        | wrong?                               |
|      | 16 19 52                  | 61 44.1   |          |                            |                                      |
|      | 16 19 52                  | 44.5      |          |                            |                                      |
|      | 16 19 52                  | -61 44.3  |          |                            |                                      |
| 238  | 61.5709                   | 16 23 18  | 61 39.5  | 9.3                        | 11.4                                 |
|      | 5690                      | 16 17 52  | 15.8     | 13.4                       | 14.6                                 |
|      | 206                       | 23.7      | 22.7     | 260                        |                                      |
|      | 16 21 54                  | 29.1      | 84       | <del>[[crossed-out]]</del> | 5 <del>[[/crossed-out]]</del> 10.4   |
|      | Checks by comparison with |           |          |                            |                                      |
|      | 21 54                     | 61 29.1   | 122      | 13.3                       | 61.5701:16 21 57-61 24.7 and 61.5699 |
|      | 16 21 54                  | -61 29.1  |          |                            |                                      |
| 263  | 61.5669                   | 16 16 38  | -61 06.6 | 10.6                       | 3.2                                  |
|      | 60.6501                   | 12 42     | 60 54.0  | 17.1                       | 11.3                                 |
|      | 236                       | 12.6      | 27.7     | 14.5                       |                                      |
|      | 16 15 08                  | 61 03.8   | 9.0      | 2.8                        |                                      |
|      | 15 08                     | 03.8      | 14.6     | 9.8                        |                                      |
|      | 16 15 08                  | -61 03.8  |          |                            |                                      |

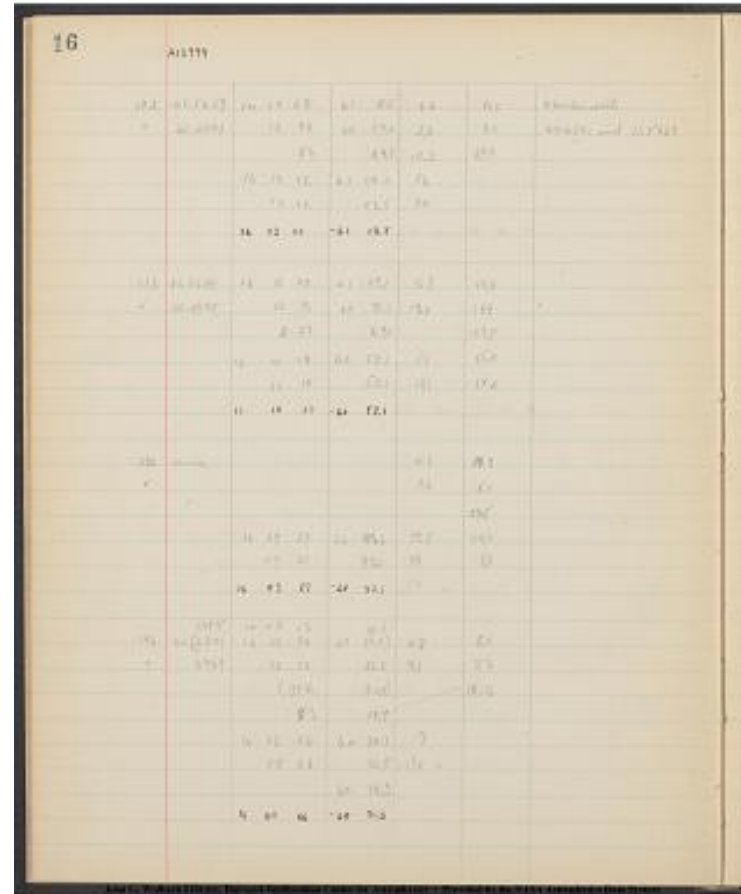
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16  
A12994

[[6 column table]]  
|---|---|---|---|---|---|

|         |          |          |         |      |                     |             |
|---------|----------|----------|---------|------|---------------------|-------------|
| 142     | -61.5657 | 16 14 08 | 61 18.5 | 6.6  | 14.5                | checks with |
| 60.6501 | 12 42    | 60 54.0  | 3.6     | 9.5  | 60.6501 and 61.5669 |             |
|         | 86       | 24.5     | 10.2    | 24.0 |                     |             |
|         | 16 13 12 | 61 04.   | 56      |      |                     |             |
|         | 13 12    | 03.5     | 30      |      |                     |             |
|         | 16 13 12 | -61 03.8 |         |      |                     |             |
| 113     | 61.5634  | 16 11 05 | 61 07.1 | 5.9  | 15.4                |             |
| 60.6485 | 08 13    | 60 38.1  | 14.0    | 15.4 |                     |             |
|         | 2 52     | 290      | 29.8    |      |                     |             |
|         | 16 10 14 | 60 52.1  | 51      | 15.0 |                     |             |
|         | 10 14    | 52.1     | 121     | 14.0 |                     |             |
|         | 16 10 14 | -60 52.1 |         |      |                     |             |
| 130     | same     |          | 11.3    | 24.7 |                     |             |
|         |          | 8.6      | 5.1     |      |                     |             |
|         |          | 29.8     |         |      |                     |             |
|         | 16 09 27 | 60 43.1  | 97.5    | 24.0 |                     |             |
|         | 09 27    | 43.1     | 74      | 5.0  |                     |             |
|         | 16 09 27 | -60 43.1 | 172     |      |                     |             |
| 6485    | 16 08 13 | 38.1     |         |      |                     |             |
| 146     | 60(6501) | 16 12 42 | 60 54.0 | 0.8  | 8.0                 |             |
| 6469    | 06 50    | 23.2     | 9.1     | 7.3  |                     |             |
|         | (352)    | 30.8     |         | 15.3 |                     |             |
|         | 83       | 14.9     |         |      |                     |             |
|         | 16 08 06 | 30.5     | 76      |      |                     |             |
|         | 60 3.03  |          |         |      |                     |             |
|         | 16 08 06 | -60 30.3 |         |      |                     |             |

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17  
A12994

[[6 Columned Table]]

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|               |           |          |          |      |      |
|---------------|-----------|----------|----------|------|------|
| 222           | 60.6501   | 16 12 42 | 60 540   | 15.4 | 15.7 |
| 6482          | 08 7      | 18.7     | 17.0     | 21.2 |      |
|               | 275       | 35.3     | 32.4     | 36.9 |      |
|               | 16 10 31  | 60 39.0  | 13.1     | 15.0 |      |
|               | 10 31     | 39.0     | 14.4     | 20.3 |      |
|               | 16 10 31  | -60 39.0 |          |      |      |
| 183           | same      |          | 13.4     | 25.1 |      |
| [[Checkmark]] |           |          | 19.0     | 11.8 |      |
|               | 36.9      |          |          |      |      |
|               | 16 10 48  | 60 30.0  | 114      | 24.0 |      |
|               | 10 48     | 30.0     | 161      | 11.3 |      |
|               | 16 10 48  | -60 30.0 |          |      |      |
| 169           | 60.6502   | 16 12 48 | -60 25.0 | 17.2 | 22.2 |
| 59.6680       | 09 02     | -59 50.3 | 9.2      | 13.5 |      |
|               | 226       | 34.7     | 26.4     | 35.7 |      |
|               | 16 10 20+ | -60 03.4 | 148      | 21.6 |      |
|               | 10 21     | 03.4     | 79       | 13.1 |      |
|               | 16 10 21  | -60 03.4 |          |      |      |
| 311           | 60.6478   | 16 07 32 | -60 05.1 | 3.1  | 4.7  |
| 59.6680       | 9 02      | 59 50.3  | 9.1      | 9.8  |      |
|               | 90        | 14.8     | 12.2     | 14.5 |      |
|               | 16 07 55  | 60 00.4  | 23       |      |      |
|               | 7 55      | 00.1     | 67       |      |      |
|               | 16 09 55  | -60 00.2 |          |      |      |

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18  
A12994

[[6 column table]]  
---|---|---|---|---|---

194|60.6502|16 12 48|-60 25.0|1.1| 8.0|  
59.6708|14 25|59 50.7|13.2|25.8|  
|1-37|34.3|14.3|33.8|  
|16 12 55|-60 17.0|7.5| |  
|12 55|16.5|89.5| |  
|16 12 55|-60 16.8| | |  
13|same| |8.3|1.9|  
| |6.0|32.0|  
| |33.9|  
|16 13 44|60 23.1|5.6| |  
|13 49|22.7|9.1| |  
|16 13 49|-60 22.9| | |  
111|same| |5.4|16.1|  
| |8.9|17.7|  
|16 13 25|60 08.9^[8.7]|37|16.3|  
|13 25|60 08.4^[8.7]|60|18.0|  
|16 13 25|-60 08.7^[8.7]| | |  
86|59.6708|16 14 25|-59 50.7|6.2|3.1|  
|6702|13 12|45.7|2.9|2.7|  
|13 12|45.7|2.9|2.7|  
|73|5.0|9.1|5.8|  
|16 13 35|59 47.6|5.0| |  
|13 35|8.4|2.3| |  
| |59 48.0| | |  
|16 13 35|-59 48.0| | |

18

A12994

|         |          |                |          |      |     |
|---------|----------|----------------|----------|------|-----|
| 194     | 60.6502  | 16 12 48       | -60 25.0 | 1.1  | 8.0 |
| 59.6708 | 14 25    | 59 50.7        | 13.2     | 25.8 |     |
|         | 1-37     | 34.3           | 14.3     | 33.8 |     |
|         | 16 12 55 | -60 17.0       | 7.5      |      |     |
|         | 12 55    | 16.5           | 89.5     |      |     |
|         | 16 12 55 | -60 16.8       |          |      |     |
| 13      | same     |                | 8.3      | 1.9  |     |
|         |          |                | 6.0      | 32.0 |     |
|         |          |                | 33.9     |      |     |
|         | 16 13 44 | 60 23.1        | 5.6      |      |     |
|         | 13 49    | 22.7           | 9.1      |      |     |
|         | 16 13 49 | -60 22.9       |          |      |     |
| 111     | same     |                | 5.4      | 16.1 |     |
|         |          |                | 8.9      | 17.7 |     |
|         | 16 13 25 | 60 08.9^[8.7]  | 37       | 16.3 |     |
|         | 13 25    | 60 08.4^[8.7]  | 60       | 18.0 |     |
|         | 16 13 25 | -60 08.7^[8.7] |          |      |     |
| 86      | 59.6708  | 16 14 25       | -59 50.7 | 6.2  | 3.1 |
|         | 6702     | 13 12          | 45.7     | 2.9  | 2.7 |
|         |          | 13 12          | 45.7     | 2.9  | 2.7 |
|         |          | 73             | 5.0      | 9.1  | 5.8 |
|         | 16 13 35 | 59 47.6        | 5.0      |      |     |
|         | 13 35    | 8.4            | 2.3      |      |     |
|         |          | 59 48.0        |          |      |     |
|         | 16 13 35 | -59 48.0       |          |      |     |

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19

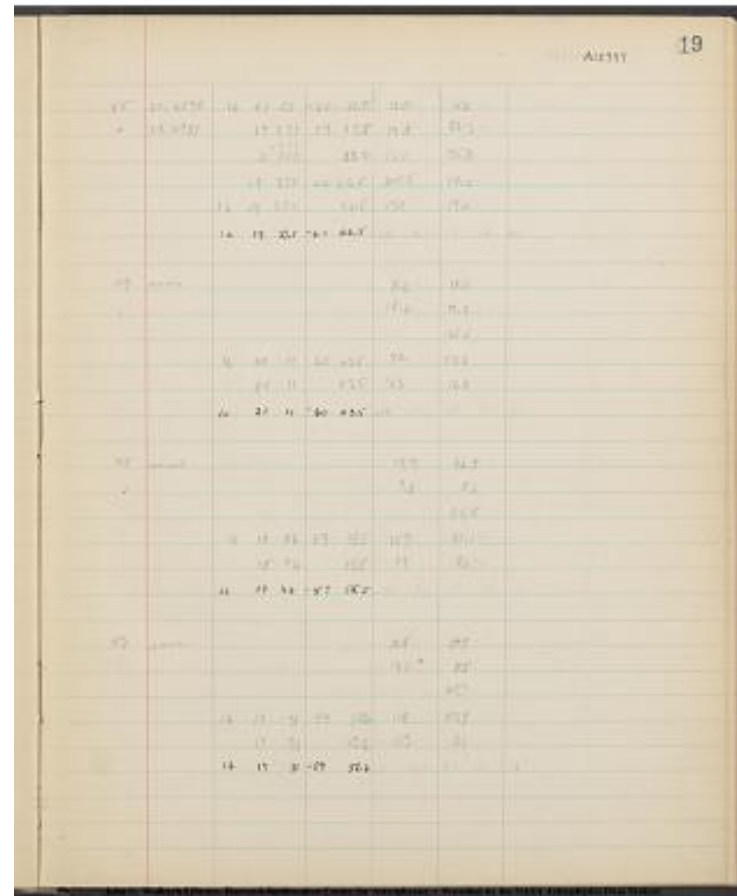
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|         |            |          |       |          |      |      |  |
|---------|------------|----------|-------|----------|------|------|--|
| 55      | 60.6540    | 16.21    | 23    | -60.20.5 | 12.0 | 1510 |  |
| 59.6731 | 17.275     | 59.47.5  | 14.8  | 2013     |      |      |  |
|         | 2355       |          |       |          |      |      |  |
|         | 3.55.5     | 33.0     | 26.8  | 35.3     |      |      |  |
|         | 19.37.5    | 60.06.5  | 105.5 | 14.0     |      |      |  |
|         | 16.19.37.5 | 06.5     | 130   | 19.0     |      |      |  |
|         | 16.19.37.5 | -60.06.5 |       |          |      |      |  |
| 117     | same       |          |       | 8.2      | 18.3 |      |  |
|         |            |          |       | 18.6     | 17.2 |      |  |
|         |            |          |       | 35.5     |      |      |  |
|         | 16.20.11   | 60.03.5  | 72    | 17.0     |      |      |  |
|         | 20.11      | 03.5     | 163   | 16.0     |      |      |  |
|         | 16.20.11   | -60.03.5 |       |          |      |      |  |
| 118     | same       |          |       | 17.9     | 26.9 |      |  |
|         |            |          |       | 9.0      | 8.6  |      |  |
|         |            |          |       | 35.5     |      |      |  |
|         | 16.18.46   | 59.55.5  | 157   | 25.1     |      |      |  |
|         | 18.46      | 55.5     | 79    | 80       |      |      |  |
|         | 16.18.46   | -59.55.5 |       |          |      |      |  |
| 53      | same       |          |       | 12.8     | 29.9 |      |  |
|         |            |          |       | 14.0     | 5.5  |      |  |
|         |            |          |       | 35.4     |      |      |  |
|         | 16.19.31   | 59.52.6  | 112   | 27.9     |      |      |  |
|         | 19.31      | 52.6     | 123   | 5.1      |      |      |  |
|         | 16.19.31   | -59.52.6 |       |          |      |      |  |

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[[6 column table]]
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|----|--|---------|--|----|----|----|-----|-----|------|------|------|------|-----|------|--|
| 85 |  | 60.6540 |  | 16 | 21 | 23 |     | -60 | 20.5 |      | 2.5  |      | 1.8 |      |  |
|    |  | 59.6764 |  |    |    | 24 | 05  |     | -57  | 553  |      | 20.1 |     | 22.0 |  |
|    |  |         |  |    |    | 2  | -42 |     |      | 25.2 |      | 22.6 |     | 23.8 |  |
|    |  |         |  | 16 | 21 | 41 |     | -60 | 18.6 |      | 17.9 |      | 1.9 |      |  |
|    |  |         |  |    |    | 21 | 41  |     |      | 18.6 |      | 144  |     | 23.3 |  |
|    |  |         |  | 16 | 21 | 41 |     | -60 | 18.6 |      | 162  |      |     |      |  |

|     |         |    |    |    |    |    |
|-----|---------|----|----|----|----|----|
| 20  | ARCTY   |    |    |    |    |    |
| 187 | 40-4025 | 24 | 23 | 57 | 24 | 27 |
| "   | 4073    | 21 | 21 |    | 22 | 52 |
|     |         | 15 | 25 | 23 | 23 | 51 |
|     |         | 24 | 23 | 23 | 24 | 57 |
|     |         | 24 | 24 |    | 25 | 52 |
|     |         | 24 | 24 | 57 | 24 | 52 |
| 188 | 45-4526 | 24 | 23 | 57 | 24 | 52 |
| "   | 4574    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 189 | 50-5027 | 24 | 23 | 57 | 24 | 52 |
| "   | 5075    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 190 | 55-5528 | 24 | 23 | 57 | 24 | 52 |
| "   | 5576    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 191 | 60-6029 | 24 | 23 | 57 | 24 | 52 |
| "   | 6077    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 192 | 65-6530 | 24 | 23 | 57 | 24 | 52 |
| "   | 6578    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 193 | 70-7031 | 24 | 23 | 57 | 24 | 52 |
| "   | 7079    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 194 | 75-7532 | 24 | 23 | 57 | 24 | 52 |
| "   | 7580    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 195 | 80-8033 | 24 | 23 | 57 | 24 | 52 |
| "   | 8081    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 196 | 85-8534 | 24 | 23 | 57 | 24 | 52 |
| "   | 8582    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 197 | 90-9035 | 24 | 23 | 57 | 24 | 52 |
| "   | 9083    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
| 198 | 95-9536 | 24 | 23 | 57 | 24 | 52 |
| "   | 9584    | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 |    | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |
|     |         | 24 | 23 | 57 | 24 | 52 |

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21  
A12994

[[6 column table]]  
|---|---|---|---|---|

|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 40 | 60.6453  | 16 04 31 | -60 26.4 | 25.4 | 15.2 |
|    | 59.6608  | 15 58 54 | 59 49.2  | 16.4 | 22.9 |
|    |          | 5 -37    | 37.2     | 41.8 | 38.1 |
|    | 16 01 06 | 60 11.6  | 204+1    | 14.8 |      |
|    | 01 06    | 11.6     | 132      | 22.4 |      |
|    | 16 01 06 | -60 11.6 |          |      |      |

|     |          |          |      |      |  |
|-----|----------|----------|------|------|--|
| 167 | same     |          | 16.8 | 10.3 |  |
|     |          |          | 25.0 | 27.8 |  |
|     |          |          | 38.1 |      |  |
|     | 16 02 16 | 60 16.3  | 135  | 10.1 |  |
|     | 02 16    | 16.3     | 202  | 27.1 |  |
|     | 16 02 16 | -60 16.3 |      |      |  |

|     |            |          |      |      |  |
|-----|------------|----------|------|------|--|
| 103 | same       |          | 30.4 | 22.5 |  |
|     |            |          | 11.5 | 15.5 |  |
|     |            |          | 41.9 | 38.0 |  |
|     | 16 00 26+1 | 60 04.4  | 245- | 22.0 |  |
|     | 00 27      | 60 4.3   | 93   | 15.1 |  |
|     | 16 00 27   | -60 04.4 |      |      |  |

|     |          |          |      |       |  |
|-----|----------|----------|------|-------|--|
| 210 | same     |          | 32.8 | 33.2  |  |
|     |          |          | 9.0  | 4.9   |  |
|     |          |          | 41.8 | 38.1  |  |
|     | 16 00 06 | 59 54.0  | 265  | 32.4  |  |
|     | 00 06    | 540      | 72   | 4.7.8 |  |
|     | 16 00 06 | -59 54.0 |      |       |  |

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22 A12994  
 [[6 columned table]]  
 |---|---|---|---|---|

|19|60.6482|16 08 07|-60 18.7|39.9|33.4|  
 |59.6628| 01 28|-59 40.6|9.5|6.0|  
 | | 6-39| 38.1|49.4|39.4|  
 | | 16 02 46|59 46.4|32.3|32.3|  
 | | 2 45| 46.4|77|5.8|  
 | | 16 02 45|-59 46.4| | |

|312|same| | |37.8|27.7|  
 | | | |11.7|11.7|  
 | | | |49.5|39.4|  
 | | 16 03 03|59 51.9|305|26.8^[+]|  
 | | 03 02| 51.9|94|11.3|  
 | | 16 03 02|-59 51.9| | |

|165|same| | |32.3|31.1|  
 | | | |16.9|8.3|  
 | | | |49.2|39.4|  
 | | 16 03 45|59 48.6|262|30.1| |  
 | | 03 45| 48.6|137|8.0| |  
 | | 16 03 45|-59 48.6| | |

|124|same| | |22.4|21.7|  
 | | | |26.9|17.6|  
 | | | |49.3|39.3|  
 | | 16 05 06|60 57.7|181|21.0|  
 | | 05 06| 57.7|218|17.1|  
 | | 16 05 06|-60 57.7| | |

The image shows a handwritten astronomical table on aged paper. The table is titled "A12994" and contains several rows of numerical data, likely representing celestial coordinates and magnitudes. The handwriting is in dark ink, and the paper shows signs of age and wear. The table is organized into columns, with some rows starting with a vertical line and others with a horizontal line. The data includes numbers like 19, 60.6482, 16, 08, 07, -60, 18.7, 39.9, 33.4, 59.6628, 01, 28, -59, 40.6, 9.5, 6.0, 6-39, 38.1, 49.4, 39.4, 16, 02, 46, 59, 46.4, 32.3, 32.3, 2, 45, 46.4, 77, 5.8, 16, 02, 45, -59, 46.4, 312, same, 37.8, 27.7, 11.7, 11.7, 49.5, 39.4, 16, 03, 03, 59, 51.9, 305, 26.8^[+], 03, 02, 51.9, 94, 11.3, 16, 03, 02, -59, 51.9, 165, same, 32.3, 31.1, 16.9, 8.3, 49.2, 39.4, 16, 03, 45, 59, 48.6, 262, 30.1, 03, 45, 48.6, 137, 8.0, 16, 03, 45, -59, 48.6, 124, same, 22.4, 21.7, 26.9, 17.6, 49.3, 39.3, 16, 05, 06, 60, 57.7, 181, 21.0, 05, 06, 57.7, 218, 17.1, 16, 05, 06, -60, 57.7.

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 Extracted Dec-02-2022 08:46:28

23

A12994

[[6 columned table]]

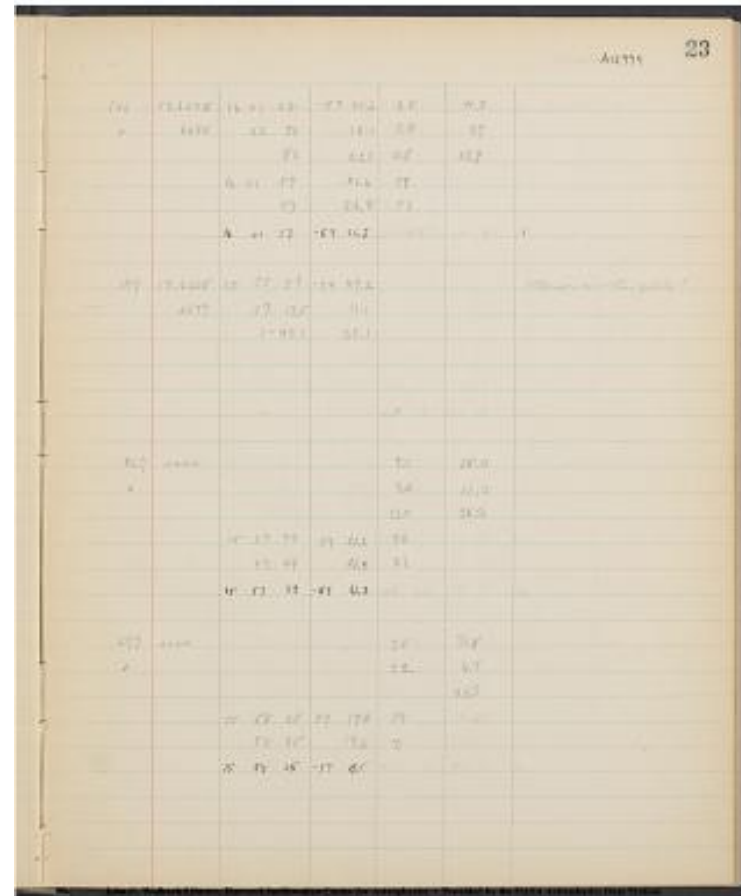
|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 166  | 59.6628  | 16 01 28 | -59 40.6 | 3.8  | 14.0 |
| 6640 | 02 50    | 18.1     | 7.0      | 8.7  |      |
|      | 82       | 22.5     | 10.8     | 22.7 |      |
|      | 16 01 57 | 26.6     | 29       |      |      |
|      | 57       | 26.8     | 53       |      |      |
|      | 16 01 57 | -59 26.7 |          |      |      |

|      |         |          |          |  |                           |
|------|---------|----------|----------|--|---------------------------|
| 147  | 59.6608 | 15 58 54 | -59 49.2 |  | letter on another plate ? |
| 6597 | 57 13.5 | 11.1     |          |  |                           |
|      | 1 -40.5 | 38.1     |          |  |                           |

|     |          |          |      |      |  |
|-----|----------|----------|------|------|--|
| 267 | same     |          | 9.0  | 28.0 |  |
|     |          | 4.0      | 10.3 |      |  |
|     |          | 13.0     | 38.3 |      |  |
|     | 15 57 44 | 59 21.2  | 70   |      |  |
|     | 57 44    | 21.4     | 31   |      |  |
|     | 15 57 44 | -59 21.3 |      |      |  |

|     |          |          |     |      |  |
|-----|----------|----------|-----|------|--|
| 273 | same     |          | 3.8 | 31.8 |  |
|     |          | 9.2      | 6.5 |      |  |
|     |          | 38.3     |     |      |  |
|     | 15 58 25 | 59 17.4  | 29  |      |  |
|     | 58 25    | 17.6     | 71  |      |  |
|     | 15 58 25 | -59 17.5 |     |      |  |

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24

A12994

[[6 column table]]  
 |---|---|---|---|---|---|

|     |          |          |         |      |      |
|-----|----------|----------|---------|------|------|
| 266 | 59.6574  | 15 55 32 | 59 25.1 | 7.1  | 9.1  |
| 587 | 6578     | 53 32    | 59 00.8 | 8.8  | 15.2 |
|     |          | 120      | 24.3    | 15.9 | 24.3 |
|     | 15 54 38 | 59 16.0  | 54      |      |      |
|     | 54 38    | 16.0     | 66      |      |      |
|     | 15 54 38 | 59 16.0  |         |      |      |
| 114 | 59.6578  | 15 53 32 | 59 00.8 | 18.1 | 14.9 |
|     | 6556     | 51 58    | 58 42.0 | 4.7  | 3.8  |
|     |          | 94       | 18.8    | 128  | 18.7 |
|     | 15 52 33 | 58 45.9  | 59      |      |      |
|     | 52 33    | 45.8     | 35      |      |      |
|     | 15 52 33 | 58 45.8  |         |      |      |
| 119 | 59.6515  | 15 52 05 | 59 54.8 | 16.2 | 21.4 |
|     | 6574     | 55 32    | 25.1    | 9.2  | 8.9  |
|     |          | 207      | 29.7    | 25.4 | 30.3 |
|     | 15 54 17 | 59 33.4  | 132     |      |      |
|     | 54 17    | 34.0     | 75      |      |      |
|     | 15 54 17 | 59 33.7  |         |      |      |
| 251 | 59.6471  | 15 49 36 | 59 38.9 | 9.2  | 20.8 |
|     | 6500     | 51 22    | 17.3    | 3.4  | 1.3  |
|     |          | 106      | 21.6    | 12.6 | 22.1 |
|     | 15 50 53 | 59 18.1  | 77      |      |      |
|     | 50 53    | 18.6     | 29      |      |      |
|     | 15 50 53 | 59 18.4  |         |      |      |

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 Extracted Dec-02-2022 08:46:28

25

A12994

[[6 column table]]

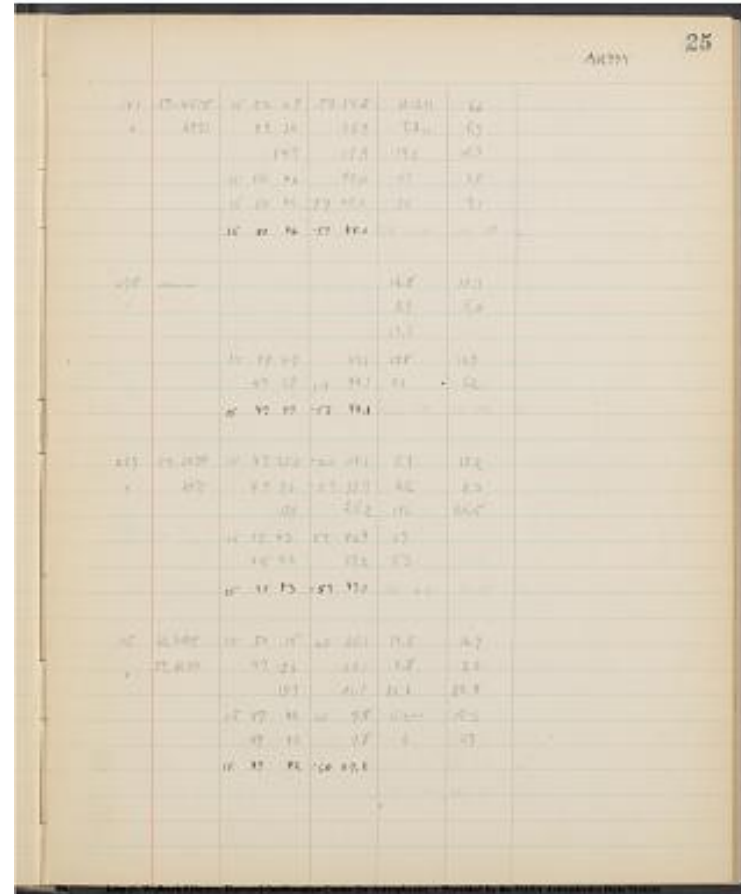
---|---|---|---|---|---

|      |          |          |         |        |     |
|------|----------|----------|---------|--------|-----|
| 141  | 59.6515  | 15 52 05 | 59 54.8 | 10.2+1 | 6.6 |
| 6471 | 49 36    | 38.9     | 9.0+1   | 8.7    |     |
|      | 149      | 15.9     | 19.2    | 15.3   |     |
|      | 15 50 46 | 48.0     | 79      | 6.8    |     |
|      | 15 50 46 | 59 48.0  | 70      | 9.1    |     |
|      | 15 50 46 | -59 48.0 |         |        |     |

|     |          |          |      |      |  |
|-----|----------|----------|------|------|--|
| 278 | same     |          | 16.8 | 10.3 |  |
|     |          | 2.7      | 5.0  |      |  |
|     |          | 19.5     |      |      |  |
|     | 15 49 57 | 44.1     | 128  | 10.7 |  |
|     | 49 57    | 59 44.1  | 21   | 5.2  |  |
|     | 15 49 57 | -59 44.1 |      |      |  |

|      |          |            |          |      |      |
|------|----------|------------|----------|------|------|
| 237  | 59.6434  | 15 47 35.8 | -60 04.1 | 7.9  | 17.2 |
| 6471 | 49 36    | -59 38.9   | 6.2      | 8.3  |      |
|      | 120      | 25.2       | 14.1     | 25.5 |      |
|      | 15 48 43 | 59 46.9    | 67       |      |      |
|      | 48 43    | 47.2       | 53       |      |      |
|      | 15 48 43 | -59 47.0   |          |      |      |

|         |          |          |         |      |      |
|---------|----------|----------|---------|------|------|
| 45      | 60.6242  | 15 50 15 | 60 25.1 | 19.8 | 16.9 |
| 59.6434 | 47 36    | 04.1     | 0.8     | 3.6  |      |
|         | 159      | 21.0     | 20.6    | 20.5 |      |
|         | 15 47 42 | 60 7.8   | 152+1   | 17.3 |      |
|         | 47 42    | 7.8      | 6       | 3.7  |      |
|         | 15 47 42 | -60 07.8 |         |      |      |



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26| A12994

[[6 column table]]

-----|-----|-----|-----|-----|-----

|43|59.6434|15 47 36|60 04.1|13.2^[[3]]|23.6|  
| |6411| 45 40|59 19.3|3.8^[[4.0]]|20.7|  
| | |116| 44.8|17.0^[[17.5]]|44.3|  
| |15 46 06|59 40.5|90| |  
| |46 06| 40.0|26| |  
236|same| |9.8^inverted|27.6|  
| | |7.4|16.7|  
| | |17 2|44.3|  
| |15 46 46|59 36.5|66| |  
| |46 46| 36.0|50| |  
| |15 46 46|-59 36.2| |  
182|59.6371|15 43 11.5|-59 38.5|3.2|4.5|  
|6411| 45 39.8| 19.3|14.4|15.9|  
| |148| 19.2|17.6|20.4|  
| |43 39|59 34.3|27|4.2|  
| |15 43 39| 34.3|121|15.0|  
| |15 43 39|-59 34.3| |  
186|59.6471|15 49 36|-59 38.9|14.8|19.9|  
|58.6430| 45 59| 00.4|14.8|18.0|  
| |207| 38.5|29.6|37.9|  
| |47 48| 18.7|108|20.2|  
| |15 47 47|59 18.7|108|18 3|  
| |15 47 47|-59 18.7| |

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27

A12994

[[6 column table]]

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|     |          |          |          |        |        |
|-----|----------|----------|----------|--------|--------|
| 202 | 59.6471  | 15 49 36 | -59 38.9 | 8.7    | 25.4   |
|     | 58.6430  | 45 59    | -59 00.4 | 20.9   | 12.4+1 |
|     | 207      | 38.5     | 296      | 37.8+1 |        |
|     | 15 48 32 | 13.1     | 64       | 25.8   |        |
|     | 48 32    | 59 13.1  | 153      | 12.7   |        |
|     | 15 48 32 | -59 13.1 |          |        |        |
| 198 | 58.6651  | 16 01 05 | -59 00.4 | 13.3   | 2.6    |
|     | 6616?    | 15 56 22 | 58 09.4  | 24.0   | 49.1   |
|     | 283      | 51.0     | 37.3     | 51.7   |        |
|     | 15 59 24 | 58 57.8  | 101      | 2.6    |        |
|     | 59 24    | 57.8     | 182      | 48.4   |        |
|     | 15 59 24 | -58 57.8 |          |        |        |

|     |          |          |      |      |  |
|-----|----------|----------|------|------|--|
| 228 |          |          | 17.3 | 14.1 |  |
|     |          |          | 20.0 | 37.6 |  |
|     | 15 58 54 | 58 46.5  | 131  | 13.9 |  |
|     | 15 58 54 | -58 46.5 |      |      |  |

|     |          |          |      |      |  |
|-----|----------|----------|------|------|--|
| 212 |          |          | 22.9 | 27.9 |  |
|     |          |          | 14.7 | 23.8 |  |
|     |          |          | 37.6 | 57.7 |  |
|     | 15 58 13 | 58 32.9  | 172  | 27.5 |  |
|     | 58 13    | 32.9     | 111  | 23.5 |  |
|     | 15 58 13 | -58 32.9 |      |      |  |

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28

A12994

[[6 columns]]

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|     |          |          |      |      |      |
|-----|----------|----------|------|------|------|
| 198 |          |          |      | 17.8 | 35.9 |
|     |          |          | 19.6 | 15.8 |      |
|     |          |          | 34.4 | 57.7 |      |
|     | 15 58 50 |          | 25.0 | 135  | 35.4 |
|     | 58 50    | 58 25.0  | 148  | 15.6 |      |
|     | 15 58 50 | -58 25.0 |      |      |      |

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 303 | 58.6651  | 16 01 05 | -59 00.4 | 7.9  | 18.8 |
|     | 6661     | 02 23.5  | 58 30.4  | 2.7  | 11.2 |
|     |          | 80       | 30.0     | 10.6 | 30.0 |
|     | 16 02 04 | 41.6     | 60       |      |      |
|     | 02 04    | 41.6     | 20       |      |      |
|     | 16 02 04 | -58 41.6 |          |      |      |

|     |          |            |         |      |      |
|-----|----------|------------|---------|------|------|
| 135 | 58.6661  | 16 02 23.5 | 58 30.4 | 5.2  | 30.9 |
|     | 57.7691  | .05 47     | 57 46.9 | 23.1 | 12.5 |
|     | 203      | 435        | 28.3    | 43.4 |      |
|     | 16 03 01 | 57 59.5    | 37      |      |      |
|     | 03 02    | 59.4       | 165     |      |      |
|     | 16 03 02 | -57 59.5   | 202     |      |      |

|     |          |         |      |      |
|-----|----------|---------|------|------|
| 304 | name     |         | 17.4 | 21.4 |
|     |          | 10.8    | 22.0 |      |
|     |          | 28.2    |      |      |
|     | 16 04 29 | 58 9.0  | 125  |      |
|     | 04 29    | 58 8.9  | 78   |      |
|     | 16 04 29 | -58 9.0 |      |      |

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 Extracted Dec-02-2022 08:46:28

A12994

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|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 74 | 58.6693  | 16 05 16 | -58 54.5 | 3.6  | 13.4 |
|    | 57.6710  | 07 38    | 58 09.8  | 16.0 | 30.3 |
|    |          | 142      | 44.7     | 19.6 | 43.7 |
|    |          | 05 42    | 40.8     | 26   | 13.7 |
|    | 16 05 42 | 58 40.8  | 116      | 31.0 |      |
|    | 16 05 42 | -58 40.8 |          |      |      |

|     |          |          |      |        |  |
|-----|----------|----------|------|--------|--|
| 188 | same     |          | 6.0  | 34.2   |  |
|     |          | 13.5     | 9.4  |        |  |
|     |          | 19.5     | 43.6 |        |  |
|     | 16 06 00 | 58 19.4  | 43.5 | 35.0+1 |  |
|     | 06 00    | 19.4     | 98   | 9.6    |  |
|     | 16 06 00 | -58 19.4 |      |        |  |

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 240 | 58.6722  | 16 09 02 | -58 08.7 | 6.5  | 7.9  |
|     | 57.7691  | 05 47    | 57 46.9  | 18.3 | 14.6 |
|     | 195      | 21.8     | 24.8     | 22.5 |      |
|     | 16 08 11 | 58 01.1  | 51       | 7.6  |      |
|     | 08 11    | 01.1     | 144      | 14.2 |      |
|     | 16 08 11 | -58 01.1 |          |      |      |

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 253 | 59.6666  | 16 06 28 | -59 26.2 | 6.1  | 17.6 |
|     | 58.6730  | 09 51    | 58 39.1  | 22.0 | 29.1 |
|     | 203      | 47.1     | 28.1     | 46.7 |      |
|     | 16 07 12 | 08.6     | 44       |      |      |
|     | 07 12    | 59 08.2  | 159      |      |      |
|     | 16 07 12 | -59 08.2 |          |      |      |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28

30  
A12994

[[6 column table]]  
|---|---|---|---|---|

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 281 | 59.6666  | 14 06 28 | -59 26.2 | 19.3 | 14.9 |
| 58? | 6730     | 09 51    | 58 39.1  | 8.9  | 31.8 |
|     | 20 3     | 47.1     | 28.2     | 46.7 |      |
|     | 16 08 47 | 59 11.3  | 13.9     |      |      |
|     | 08 47    | 10.9     | 64       |      |      |
|     | 16 08 47 | -59 11.1 |          |      |      |
| 310 | same     | 14.1     | 32.3     |      |      |
|     |          | 14.1     | 14.3     |      |      |
|     | 16 08 09 | 58 53.9  | 101+     |      |      |
|     | 08 10    | 53.4     | 101+     |      |      |
|     | 16 08 10 | -58 53.6 |          |      |      |
| 88  | same     | 15.3     | 33.5     |      |      |
|     |          | 13.0     | 13.0     |      |      |
|     |          | 46.6     |          |      |      |
|     | 16 08 18 | 58 52.7  | 110      |      |      |
|     | 08 18    | 52.2     | 93       |      |      |
|     | 16 08 18 | 58 52.5  |          |      |      |
| 87  | 59.6694  | 16 11 28 | -59 27.0 | 10.9 | 13.7 |
| 1   | 58 6763  | 13 34    | 01.6     | 6.7  | 11.1 |
|     | 12 6     | 25.4     | 17.6     | 24.8 |      |
|     | 16 12 46 | 59 13.0  | 78       | 14.0 |      |
|     | 12 46    | 13.0     | 48       | 11.4 |      |
|     | 16 12 46 | -59 13.0 |          |      |      |

30

A12994

|     |          |          |          |      |      |
|-----|----------|----------|----------|------|------|
| 281 | 59.6666  | 14 06 28 | -59 26.2 | 19.3 | 14.9 |
| 58? | 6730     | 09 51    | 58 39.1  | 8.9  | 31.8 |
|     | 20 3     | 47.1     | 28.2     | 46.7 |      |
|     | 16 08 47 | 59 11.3  | 13.9     |      |      |
|     | 08 47    | 10.9     | 64       |      |      |
|     | 16 08 47 | -59 11.1 |          |      |      |
| 310 | same     | 14.1     | 32.3     |      |      |
|     |          | 14.1     | 14.3     |      |      |
|     | 16 08 09 | 58 53.9  | 101+     |      |      |
|     | 08 10    | 53.4     | 101+     |      |      |
|     | 16 08 10 | -58 53.6 |          |      |      |
| 88  | same     | 15.3     | 33.5     |      |      |
|     |          | 13.0     | 13.0     |      |      |
|     |          | 46.6     |          |      |      |
|     | 16 08 18 | 58 52.7  | 110      |      |      |
|     | 08 18    | 52.2     | 93       |      |      |
|     | 16 08 18 | 58 52.5  |          |      |      |
| 87  | 59.6694  | 16 11 28 | -59 27.0 | 10.9 | 13.7 |
| 1   | 58 6763  | 13 34    | 01.6     | 6.7  | 11.1 |
|     | 12 6     | 25.4     | 17.6     | 24.8 |      |
|     | 16 12 46 | 59 13.0  | 78       | 14.0 |      |
|     | 12 46    | 13.0     | 48       | 11.4 |      |
|     | 16 12 46 | -59 13.0 |          |      |      |

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31

A12994

[[7 column table]]

|          |          |          |          |      |      |  |
|----------|----------|----------|----------|------|------|--|
| 17       | 58.6763  | 16 13 34 | -59 01.6 | 10.4 | 15.3 |  |
| 6730     | 09 51    | 58 39.1  | 17.6     | 8.8  | poor |  |
| 223      | 22.5     | 28.0     | 24.1     |      |      |  |
| 16 12 11 | 58 47.3  | 83       | 14.3     |      |      |  |
| 12 11    | 47.3     | 140      | 8.2      |      |      |  |
| 16 12 11 | -58 47.3 |          |          |      |      |  |

|          |          |          |          |      |      |      |  |
|----------|----------|----------|----------|------|------|------|--|
| 48       | 58.6774  | 16 15 09 | -58 40.5 | 14.2 | 14.0 | poor |  |
| 6749     | 12 09    | 19.7     | 8.3      | 8.5  |      |      |  |
| 180      | 20.8     | 22.5     | 22.5     |      |      |      |  |
| 16 13 15 | 58 27.6  | 114      | 12.9     |      |      |      |  |
| 13 15    | 27.6     | 66       | 7.9      |      |      |      |  |
| 16 13 15 | -58 27.6 |          |          |      |      |      |  |

|          |          |          |          |      |      |      |  |
|----------|----------|----------|----------|------|------|------|--|
| 126      | 58.6774  | 16 15 09 | -58 40.5 | 3.6  | 18.7 | 43.2 |  |
| ?        | 57 8015  | 18 46    | 57 53.6  | 28.4 | 27.0 |      |  |
| x        | 217      | 46.9     | 32.0     | 45.7 |      |      |  |
| 16 15 33 | 58 21.3  | 24       | 19.2     |      |      |      |  |
| 15 33    | 21 3     | 193      | 29.7     |      |      |      |  |
| 16 15 33 | -58 21.3 |          |          |      |      |      |  |

|          |         |                 |          |                  |      |  |  |
|----------|---------|-----------------|----------|------------------|------|--|--|
| 191      | same    |                 | 15.9     | 25.9             | 54.9 |  |  |
| ?        |         | 16.1            | 19.7     |                  |      |  |  |
| x        |         | 320             | 45.6     |                  |      |  |  |
| 16 16 57 | 58 13.9 | 108             | 26.5 + 1 |                  |      |  |  |
| 16 57    | 13.9    | 109             | 20.3     |                  |      |  |  |
| 16 16 57 | -58     | [[crossed out]] | 14.4     | [[/crossed out]] | 13.9 |  |  |

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 [[symbol - circle]] Provided by the NASA Astrophysics Data System

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32

A12994

[[7 column table]]

|313|58.6774|16 15 09|-58 40.5|17.6 .8| 9.56[[9.9]] |55.8 16.66^[[on  
A1985]]|  
| 57.8015| 18 46|-57 53.6|14.4 .2|36.1  
^[[~~55.2~~]]|11.8|  
A1985| 217| 46.9|32.0 |45.6 ^[[45.4]]| 28.4|  
|16 17 16| |15 17 0 7^[[8]]|10|58 30.7| 11 ~~[[~~55.2~~]]~~ 8  
[[~~55.2~~]]9 12.1|9.8|127|  
|17 16| |15 17 07 ^[[8]]|10| 30.7| 97+^[[8]]96| 37.1| 90|  
|16 17 16| | |-58 30.7| | | |

330|58.6651|16 01 05|59 00.4|33.0|320^[[1]]| |  
| 6616|15 56 22|58 09.4|4.2|9.8| |  
| | 283| 5.0| |51.7| |  
| | 15 56 54|58 29.0|25.1| 31.5^[[1]]| |  
| | 56 54| 29.0|32|19.6| |  
| | 15 56 54|-58 29.0| | | |

|331|same| | |11.5|30.1| |  
| | | 25.8|21.5| |  
| | | 373|51.6| |  
| | 15 59 38|58 30.7|87|29. ~~[[~~55.2~~]]~~ 8 ~~[[~~55.2~~]]~~ 7| |  
| | 59 38| 30.7|96|21.3| |  
| | 15 59 38|-58 30.7| | | |

|334|59.6666|16 06 28|59 26.2|13.2|34.2| |  
| 6730| 09 51|58 39|15.0|12.3| |  
| | 203| 47.1|28.2|46.5| |  
| | 16 08 03|58 51.6|95| 34.6| |  
| | 08 03| 51.6|108|12.5| |  
| | 16 08 03|-58 51.6| | | |

32

|          |         |           |          |         |           |         |           |                                |                  |
|----------|---------|-----------|----------|---------|-----------|---------|-----------|--------------------------------|------------------|
| 313      | 58.6774 | 16 15 09  | -58 40.5 | 17.6 .8 | 9.56      | [[9.9]] | 55.8      | 16.66                          | ^[[on<br>A1985]] |
| 57.8015  | 18 46   | -57 53.6  | 14.4 .2  | 36.1    |           |         |           |                                |                  |
| 55.2     |         |           |          | 11.8    |           |         |           |                                |                  |
| A1985    | 217     | 46.9      | 32.0     | 45.6    | ^[[45.4]] |         | 28.4      |                                |                  |
| 16 17 16 |         | 15 17 0 7 | ^[[8]]   | 10      | 58 30.7   |         | 11        | <del>[[<del>55.2</del>]]</del> | 8                |
|          |         |           |          |         | 9         | 12.1    | 9.8       | 127                            |                  |
| 17 16    |         | 15 17 07  | ^[[8]]   | 10      | 30.7      |         | 97+^[[8]] | 96                             | 37.1 90          |
| 16 17 16 |         |           |          |         | -58 30.7  |         |           |                                |                  |

330

|         |          |          |      |      |        |  |  |
|---------|----------|----------|------|------|--------|--|--|
| 58.6651 | 16 01 05 | 59 00.4  | 33.0 | 320  | ^[[1]] |  |  |
| 6616    | 15 56 22 | 58 09.4  | 4.2  | 9.8  |        |  |  |
|         | 283      | 5.0      |      | 51.7 |        |  |  |
|         | 15 56 54 | 58 29.0  | 25.1 | 31.5 | ^[[1]] |  |  |
|         | 56 54    | 29.0     | 32   | 19.6 |        |  |  |
|         | 15 56 54 | -58 29.0 |      |      |        |  |  |

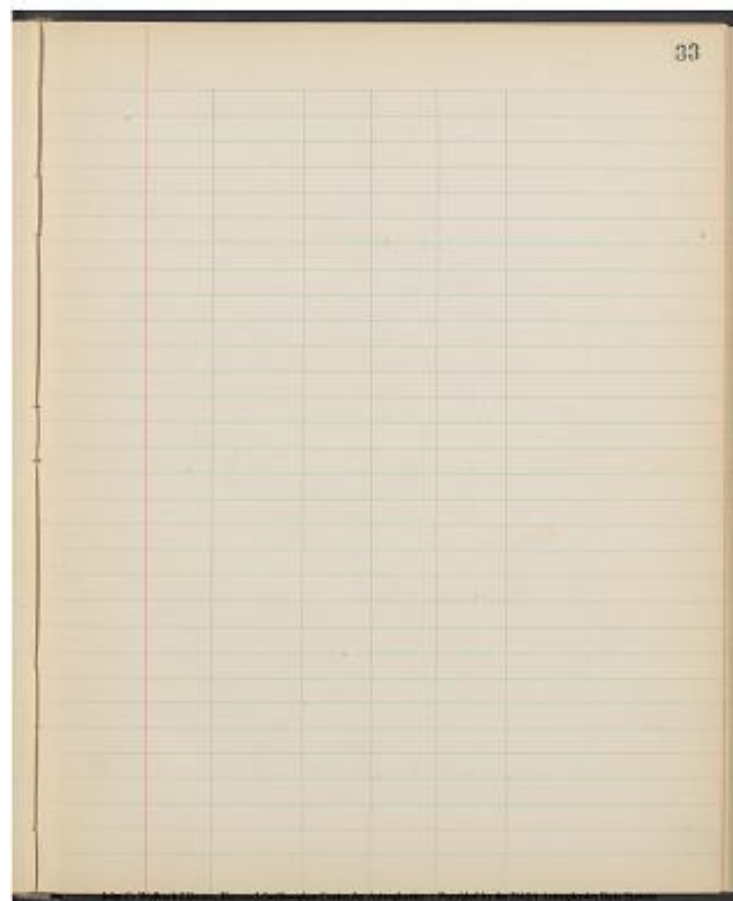
331

|      |          |          |      |      |                                |   |                                |
|------|----------|----------|------|------|--------------------------------|---|--------------------------------|
| same |          |          | 11.5 | 30.1 |                                |   |                                |
|      |          |          | 25.8 | 21.5 |                                |   |                                |
|      |          |          | 373  | 51.6 |                                |   |                                |
|      | 15 59 38 | 58 30.7  | 87   | 29.  | <del>[[<del>55.2</del>]]</del> | 8 | <del>[[<del>55.2</del>]]</del> |
|      | 59 38    | 30.7     | 96   | 21.3 |                                |   |                                |
|      | 15 59 38 | -58 30.7 |      |      |                                |   |                                |

334

|         |          |          |      |      |  |  |  |
|---------|----------|----------|------|------|--|--|--|
| 59.6666 | 16 06 28 | 59 26.2  | 13.2 | 34.2 |  |  |  |
| 6730    | 09 51    | 58 39    | 15.0 | 12.3 |  |  |  |
|         | 203      | 47.1     | 28.2 | 46.5 |  |  |  |
|         | 16 08 03 | 58 51.6  | 95   | 34.6 |  |  |  |
|         | 08 03    | 51.6     | 108  | 12.5 |  |  |  |
|         | 16 08 03 | -58 51.6 |      |      |  |  |  |

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30, MWF 193 #IV  
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34

A1985

[[6 column table]]

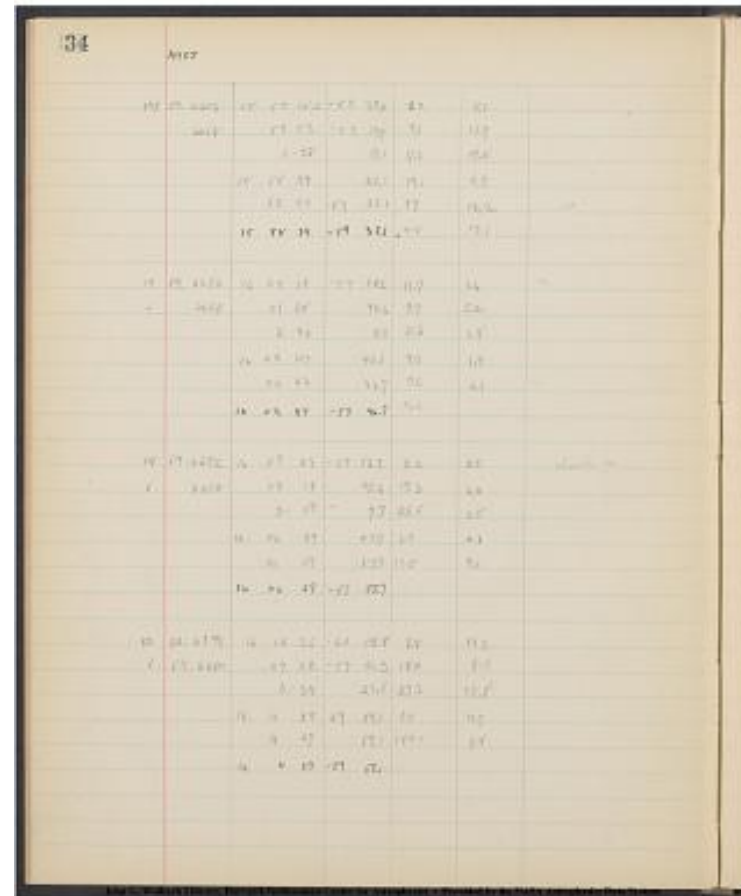
---|---|---|---|---|---

|      |          |            |         |      |     |
|------|----------|------------|---------|------|-----|
| 147  | 59.6603  | 15 58 15.0 | -59 370 | 22   | 5.1 |
| 6618 | 59 53    | -59 199    | 9.1     | 12.7 |     |
|      | 1-58     | 17.1       | 11.3    | 17.8 |     |
|      | 15 58 34 | 32.1       | 19.1    | 4.9  |     |
|      | 58 34    | -59 32.1   | 79      | 12.2 |     |
|      | 15 58 34 | -59 32.1   | 98      | 17.1 |     |

|      |          |          |          |      |                       |
|------|----------|----------|----------|------|-----------------------|
| 19   | 59.6650  | 16 04 14 | -59 48.6 | 11.7 | 1.6                   |
| 6628 | 01 28    | 40.6     | 9.9      | 5.2  |                       |
|      | 2 46     | 8.0      | 21.6     | 6.8  |                       |
|      | 16 02 44 | 46.7     | 90       | 1.9  |                       |
|      | 02 44    | 46.7     | 76       | 4.1  |                       |
|      |          |          |          |      | 16 06 44 -59 46.7 166 |

|      |          |          |         |     |     |
|------|----------|----------|---------|-----|-----|
| 18   | 59.6672  | 16 07 33 | -59 563 | 8.2 | 0.5 |
| 6650 | 04 14    | 48.6     | 17.3    | 6.0 |     |
|      | 3- 19    | 7.7      | 25.5    | 6.5 |     |
|      | 16 06 29 | 55.7     | 64      | 0.6 |     |
|      | 06 29    | 55.7     | 135     | 7.3 |     |
|      | 16 06 29 | -59 55.7 |         |     |     |

|         |          |          |          |      |      |
|---------|----------|----------|----------|------|------|
| 50      | 60.6499  | 16 12 36 | -60 13.8 | 8.8  | 14.3 |
| 59.6680 | 0.9 02   | -59 50.3 | 18.4     | 8.5  |      |
|         | 3-34     | 23.5     | 27.2     | 22.8 |      |
|         | 16 11 27 | 59 59.1  | 69       | 14.7 |      |
|         | 11 27    | 59.1     | 144+     | 8.8  |      |
|         | 16 11 27 | -59 59.1 |          |      |      |



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35  
A1985

[[6 column table]]  
|---|---|---|---|---|

|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 16   | 59.6702  | 16 13 12 | -59 45.7 | 12.6 | 18.0 |
| 6694 | 11 28    | 27.0     | 1.9      | 0.8  |      |
|      | 104      | 18.7     | 14.5     | 18.8 |      |
|      | 16 11 42 | 27.7     | 90       |      |      |
|      | 11 42    | 27.8     | 14       |      |      |
|      | 16 11 42 | -59 27.8 |          |      |      |

|         |          |          |          |      |      |
|---------|----------|----------|----------|------|------|
| 153     | 60.6499  | 16 12 36 | -60 13.8 | 6.8  | 13.8 |
| 59.6708 | 14 25    | -59 50.7 | 6.9      | 9.7  |      |
|         | 1 -49    | 23.1     | 13.7     | 23.5 |      |
|         | 13 30    | -60 0.0  | 54       |      |      |
|         | 13 30    | 4        | 55       |      |      |
|         | 16 13 30 | -60 0.2  |          |      |      |

|         |          |          |          |      |     |
|---------|----------|----------|----------|------|-----|
| 292     | 59.6687  | 16 10 34 | -59 15.0 | 8.8  | 4.9 |
| 58.6763 | 13 34    | -59 01.6 | 15.5     | 8.9  |     |
|         | 180      | 13.4     | 24.3     | 13.8 |     |
|         | 16 11 39 | 10.1     | 65       |      |     |
|         | 11 39    | 10.5     | 115      |      |     |
|         | 16 11 39 | -59 10.3 |          |      |     |

|    |          |         |      |      |  |
|----|----------|---------|------|------|--|
| 49 | same     |         | 16.5 | 2.5  |  |
| ?  |          |         | 7.8  | 11.3 |  |
|    |          |         | 24.3 | 13.5 |  |
|    | 16 12 36 | 59 03.7 | 122  |      |  |
|    | 12 38    | 4.1     | 58   |      |  |
|    | 16 12 37 | -59 3.9 |      |      |  |

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36

A1985

[[6 column table]]

---|---|---|---|---|---

|328|59.6731|16 17 27.5|59 47.6|29.3|25.3|  
 |6687| 10 34| 15.0|25.1|6.7|  
 | | 6-53.5| 32.6|54.4|32.0|  
 | | 13 45| 21.8|222|25.8|  
 | | 13 45| 21.8|191|6.8|  
 | | 16 13 45|-59 21.8| | |

|51|59.6708|16 14 25|-59 50.7|20.4|17.4|  
 |6740| 18 21| 21.5|9.1|12.2|  
 | | 3 -56| 29.2|29.5|29.6|  
 | | 16 17 09|-59 33.3|16.4| |  
 | | 17 08| 33.7|73| |  
 | | 16 17 08|-59 33.5| | |

|201|60.6540|16 21 23|-60 20.5|25.7|28.3|  
 |59.6731| 17 27.5|59 47.6|3.7|5.4|  
 | | 3 -55.5| 32.9|29.4|33.7|  
 | | 16 17 57| 52.9|206|27.5+1|  
 | | 17 57|59 52.9|30|5.3|  
 | | 16 17 57|-59 52.9| | |

|55|same| | |127|14.2|  
 | | | |16.8|19.5|  
 | | | |29.5|33.7|  
 | | 16 19 41|60 06.7|102|138+|  
 | | 19 41| 06.6|134|19.0+|  
 | | 16 19 41|-60 06.6| | |

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The image shows a handwritten astronomical data table on a piece of paper with a grid. The table is titled 'A1985' and contains several rows of numerical data, likely representing star positions and magnitudes. The handwriting is in dark ink on a light-colored paper.

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37  
A1985

[[7 column table]]  
|---|---|---|---|---|---|---|

|54|59.6756|16 22 02|-59 43.8|11.7|8.3| |  
|6740| 8 21| 21.5|16.5|14.4| |  
| | 3-41| 22.3|28.2|22.7| |  
| | 16 20 30| 35.5|92| |  
| | 20 30| 35.9|129| |  
| | 16 20 30|-59 35.7| | |

|163|59.6756|16 22 02|-59 43.8|19.1|17.6|18.8 19.6|  
|58.6835| 26 12|-59 01.4|14.0|24.6|14.1 14.0|  
| | 4.10| 42.4|33.1|42.2|32.9 33.1|  
| | 16 24 25|59 26.2|14.3| |  
| | 24 25| 26.0|10.7| 14.3|  
| | 16 24 25|-59 26.1| | 10.7 slightly off in [[h?]]|

|151|60.6593|16 29 53|-60 04.5|12.2|21.4| |  
|59.6776| 27 39|59 41.4|4.8|2.2| |  
| | 134| 23.1|17.0|23.6| |  
| | 16 28 17|59 43.6|96|20.9| |  
| | 28 17| 43.6|38|2.2| |  
| | 16 28 17|-59 43.6| 23.1| |

|52|60.6617|16 34 35|60 08.7|3.5|13.7| |  
|59.6803| 32 48|-59 44.9|8.2|11.2| |  
| | 1-47| 23.8|11.7|24.9| |  
| | 16 34 03|[[\strikethrough]] 60 [[\strikethrough]]59 55.6|32|13.1| |  
| | 34 03| 556|75|10.7| |  
| | 16 34 03|-59 55.6|107| |

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38 A1985

[[6 column table]]

-----

|3|59.6803|16 32 48|-59 44.9|1.1|4.3|

|6789| 30 12| 28.9|17.9|12.9

| | 2- 36|16.0|19.0|17.2|

| 16 32 39| 40.9|9|4.0|

| 32 39|59 40.9|147|12.0|

| 16 32 39|-59 40.9| | |

|12|59.6789|16 30 12|-59 28.9|0.9|4.5|

|58.6862| 32 00|-58 53.3|149|30.5|

| | 108|35.6|[[15.8?]]|35.0|

| 16 30 18|59 24.3|6|4.6|

| 30 18|59 24.3|102|31.0|

| 16 30 18|-59 24.3| | |

|150|same| | 5.0|9.1|

| | | 10.8|26.0|

| | | 15.8|35.1|

| 16 30 46|59 19.7|34|9.2|

| 30 46|59 19.7|74|26.4|

| 16 30 46|-59 19.7| | |

|235|same| | 9.7|27.4|

| | | 6.1|7.6|

[[note: line drawn diagonally from 59 01.1 cell to 66 cell below]]

| | 31 18|59 01.1|15.8|35.0|

| | 16 31 18|01.1| 66|27.8|

| | 16 31 18|-59 01.1|42|7.8|

[[note: line drawn diagonally from 01.1 cell to 42 cell below]]

| 38 | A1985   |          |          |           |      |     |
|----|---------|----------|----------|-----------|------|-----|
| 1  | 59.6803 | 16 32 48 | -59 44.9 | 1.1       | 4.3  |     |
| 2  | 6789    | 30 12    | 28.9     | 17.9      | 12.9 |     |
| 3  |         | 2- 36    | 16.0     | 19.0      | 17.2 |     |
| 4  |         | 16 32 39 | 40.9     | 9         | 4.0  |     |
| 5  |         | 32 39    | 59 40.9  | 147       | 12.0 |     |
| 6  |         | 16 32 39 | -59 40.9 |           |      |     |
| 7  | 12      | 59.6789  | 16 30 12 | -59 28.9  | 0.9  | 4.5 |
| 8  | 58.6862 | 32 00    | -58 53.3 | 149       | 30.5 |     |
| 9  |         | 108      | 35.6     | [[15.8?]] | 35.0 |     |
| 10 |         | 16 30 18 | 59 24.3  | 6         | 4.6  |     |
| 11 |         | 30 18    | 59 24.3  | 102       | 31.0 |     |
| 12 |         | 16 30 18 | -59 24.3 |           |      |     |
| 13 | 150     | same     |          | 5.0       | 9.1  |     |
| 14 |         |          |          | 10.8      | 26.0 |     |
| 15 |         |          |          | 15.8      | 35.1 |     |
| 16 |         | 16 30 46 | 59 19.7  | 34        | 9.2  |     |
| 17 |         | 30 46    | 59 19.7  | 74        | 26.4 |     |
| 18 |         | 16 30 46 | -59 19.7 |           |      |     |
| 19 | 235     | same     |          | 9.7       | 27.4 |     |
| 20 |         |          |          | 6.1       | 7.6  |     |

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39  
A1958

[[6 column table]]  
|---|---|---|---|---|---|

|               |          |          |          |      |      |
|---------------|----------|----------|----------|------|------|
| 200           | 59.6776  | 16 27 39 | -59 41.4 | 6.1  | 19.6 |
| [[checkmark]] | 6779     | 28 51    | 03.5     | 4.5  | 18.3 |
|               | 1 12     | 37.9     | 10.6     | 37.9 |      |
|               | 28 21    | 21.8     | 41.5     |      |      |
|               | 21+      | 21.8     | 31-      |      |      |
|               | 16 28 21 | -59 21.8 |          |      |      |

|        |          |                                     |          |      |      |
|--------|----------|-------------------------------------|----------|------|------|
| 314    | 58.6835  | 16 26 12                            | -59 01.4 | 5.3  | 9.2  |
| 6824   | 24 04    | 58 43.0                             | 10.9     | 9.9  |      |
| GG Nov | QT Nov   | 128                                 | 18.4     | 16.2 | 19.1 |
|        | 25 30    | -58 52.5                            | 42       | 8.9  |      |
|        | 25 30    | 52.5                                | 86       | 9.5  |      |
|        | 16 25 30 | [[striketrough]]-59[[striketrough]] | 52.5     |      |      |
|        | -58 52.5 |                                     |          |      |      |

|    |          |          |          |      |       |
|----|----------|----------|----------|------|-------|
| 83 | 58.6839  | 16 28 24 | -58 14.7 | 5.1  | 3.0   |
|    | 57.8093  | 31 05    | -57 30.7 | 18.3 | 40.0+ |
|    | 2 41     | 44.0     | 23.4     | 43.0 |       |
|    | 28 59    | 58 11.6  | 35       | 3.1  |       |
|    | 28 59    | 58 11.6  | 126      | 40.9 |       |
|    | 16 28 59 | -58      | 11.6     |      |       |

|    |          |          |      |       |  |
|----|----------|----------|------|-------|--|
| 10 | same     |          | 8.9  | 15.3- |  |
|    |          |          | 14.4 | 27.8  |  |
|    |          |          | 23.3 | 43.1- |  |
|    | 16 29 26 | 57 59.0+ | 62   | 15.7- |  |
|    | 29 25    | 59.1     | 100  | 28.4  |  |
|    | 16 29 26 | -57 59.1 |      | 44.1  |  |

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Handwritten astronomical data table on page 39 of a notebook. The page contains several rows of data, some with handwritten notes like "SG Nov & QT Nov" and "25 30". The data appears to be related to variable stars, with columns for dates, magnitudes, and positions. The page number "39" is visible in the top right corner.

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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40

A1985

[[6 columned table]]

| --- | --- | --- | --- | --- | --- |

| 158 | 58.6839 | 16 28 24 | -58 14.7 | 20.2 | 32.6 |

| | 57.8093 | 31 05 | 57 30.7 | 3.3 | 10.5 |  
 | | 161 | 44.0 | 23.5 | 43.1 |  
 | | 16 30 42 | 57 41.4 | 13.8 | 33.3 |  
 | | 30 42 | 41.4 | 2.3 | 10.7 |  
 | | 16 30 42 | -57 41.4 | | |

59 | 58.6824 | 16 24 04 | -58 43.0 | 6.7 | 12.8 |  
 | 6809 | 21 19 | 03.6 | 14.3 | 27.6 |  
 | | 2 45 | 39.4 | 21.0 | 40.4 |  
 | | 23 11 | 30.5 | 53 | 12.5 |  
 | | 23 11 | 58 30.6 | | |  
 | | 16 23 11 | -58 30.6 | | |

271 | 57.8096 | 16 23 10 | 57 50.6 | 6.3 | 10.4 |  
 | 8032 | 20 45 | 18.3 | 12.8 | 22.3 |  
 | | 2- 25 | 32.3 | 19.1 | 32.7 |  
 | | 22 | 22 | 57 | 40.2 | 48 | |  
 | | 22 22 | 40.6 | 97 | |  
 | | 16 22 22 | -57 40.4 | | |

184 | same | | 13.1 | 21.0- |  
 | | 6.0 | 11.7 |  
 | | 19.1 | 32.7 |  
 | | 16 21 31 | 29.6- | 100 -1 | | | 21 31 | 300 | 46 | |  
 | | 16 21 31 | -57 29.8 |

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 Extracted Dec-02-2022 08:46:28

41

A1985

[[6 columns]]

---|---|---|---|---|---

| 57 | 59.6749 | 16 20 57 | -59 08.3 | 23.1 | 27.8 |  
 | 58.6778 | 15 41 | -58 24.5 | 17.8 | 16.3 |  
 | | 5-16 | 43.8 | 40.9 | 44.1 |  
 | | 17 58 | 58 40.5 | 179 | 1 |  
 | | 59 | 40.8 | 138 | |  
 | | 16 17 58 | -58 40.6 | | |

| 58 | same | | | 6.1 | 10.5 |  
 | | | | 34.8 | 33.6 |  
 | | | | 40.9 | 44.1 |  
 | | 16 20 10 | 58 57.8 | 47 | |  
 | | 20 10 | 58.1 | 269 | |  
 | | 16 20 10 | -58 58.0 | | |

| 110 | 58.6778 | 16 15 41 | -58 24.5 | 22.2 | 8.0 |  
 | 57.8015 | 18 46 | -57 54.6 | 2.3 | 23.3 |  
 | | 3-05 | 29.9 | 24.5 | 31.3 |  
 | | 16 18 29 | 58 16.9 | 168 | 7.6 |  
 | | 18 29 | 16.9 | 17 | 22.3 |  
 | | 16 18 29 | -58 16.9 | | |

| 249 | same | | | 18.0 | 14.2 |  
 | | | | 6.5 | 17.1 |  
 | | 16 17 57 | 58 10.9 | 136 | 13.6 |  
 | | 17 57 | 10.9 | 49 | 16.3 |  
 | | 16 17 57 | -58 10.9 | | |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 08:46:28



42  
A1985  
6 column table  
--|--|--|--|--|

226|59.6680|16 09 02|-59.50.3|9.6|19.8|  
|6694|16 11 88| 27.0|7.3|4.3|  
| | 2 26| 23.3|16.9|24.1|  
| | 10 25| 31.2|83|19.1|  
| | 16 10 25|59 31.2|63|4.2|  
| | 16 10 25|-59 31.2|146| |

|73|58.6763|16 13 34|-59 01.6|2.1|6.9|  
|6774|15 09|-58 405|9.9|14.5|  
| | 1-35| 21.1|12.0|21.4|  
| | 16 13 51|58 54.7|17+| |  
| | 13 50| 55.0|79-| |  
| | 16 13 50|-59 54.8| | |

|306|58.6763|16 13 34|-59 01.6|6.2|14.7|  
|6749| 12 09|-58 19.7|5.8|27.4|  
| | 85| 41.9|12.0|42.1|  
| | 12 50|-58 46.9|44| |  
| | 12 50| 47.1|41| |  
| | 16 12 50|-59 47.0| | |

|245|58.6730|16 09 51|-58 39.1|7.1|5.9|  
|6749| 12 09| 19.7|10.4|14.2|  
| | 2-18| 19.4|17.5|20.1|  
| | 16 10 47| 33.4|56|5.4|  
| | 10 47| 33.4|82|13.7|  
| | 16 10 47|-58 33.4| | |

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Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

43  
A1985  
[[7 columns]]  
|---|---|---|---|---|---|  
|2|58.6730|16 09 51|-58 39.1|4.7|6.6|6^[[5]].5|  
|6710|07 38|09.8|14.0|22.5|22.5|  
| | |2- 13|29.3|187|29.1| |  
| | |16 09 18|32.5|3| | |  
| | |09 18|32.3|100| | |  
| | |16 09 18|-58 22.4| | | |  
  
|149|58.6688|19 04 37|-58 26.1|5.9|11.3| |  
|6710| 07 38| 09.8|17.0|6.2| |  
| | |181| 16.3|22.9|17.5| |  
| | |05 24| 15.6|46.9|10.5| |  
| | |05 24| 15.6|134|5.8| |  
| | |16 05 24|-58 15.6| | | |  
  
|47|57.7676|16 04 17|-58 00.0|2.2|6.0| |  
|7664| 03 37| 57 48.1|3.7|5.8| |  
| | |40| 11.9|5.9|11.8| |  
| | |04 02|57 54.0|15| | |  
| | |04 02| 53.9|25| | |  
| | |16 04 02|-57 54.0| | | |  
  
|154|57.7664|16 03 37|-57 48.1|26.5|18.8|  
|7583| 00 04| 14.4|4.3|13.2| |  
| | |213| 33.7|30.8|32.0| |  
| | |16 00 34| 28.3|183|19.8| |  
| | |34|57 28.3|30|13.9| |  
| | |16 00 34|-57 28.3| | | |

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Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

44  
A1985

[[7 column table]]  
|---|---|---|---|---|---|---|

|? 332|57.7664|16 03 37|-5748.1|10.3|24.9|10.7 ^[[A93010beta alpha]]  
|7583| 00 04| 14.4|20.5|7.1|20.8|  
| | 213| 337|30.8|32.0|  
| | 16 02 26|-57 21.9|71|26.2|722 25|  
| | 2 26| 21.9|142|7.5|141|

|9|same| | |9.2|30.6| |  
| | | |21.6|1.4| |  
| | | |30.8|32.0| |  
| | 16 02 33|57 159|64|32.2x| |  
| | 2 33| 15.9| 149| 1.5| |

|269|58.6710|16 07 38|-58 08.7|4.7|18.1| |  
|57.6791| 05 47|57 46.9|10.6|4.4| |  
| | 111| 21.8|15.3| 22.5| |  
| | 6 07 04|57 51.2|3.4|17.5| |  
| | 07 04| 51.2|77|4.3| |  
| | 16 07 04|-57 51.2| | |

|335|58.6775|16 15 26|-58 04.7|11.2|16.2| |  
|57 7909| 13 02|57 40.7|8.1|7.8| |  
| | 144| 24.0|19.3|24.0| |  
| | 16 14 02|57 48.5|84| | |  
| | 14 02| 48.5|60| | |  
| | 16 14 02|-57 48.5| | |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

45

A1985

[[6 column table]]

|---|---|---|---|---|---|

|     |          |          |          |          |      |
|-----|----------|----------|----------|----------|------|
| 213 | 57.7909  | 16 13 02 | -57 40.7 | 25.6     | 20.3 |
|     | 56.7434  | 06 05    | 02.1     | 31.9     | 17.1 |
|     | 6 -57    | 38.6     | 57.5     | 37.4     |      |
|     | 16 09 56 | 19.7     | 186      | 21.0     |      |
|     | 09 56    | 57 19.7  | 231      | 17.7 - 1 |      |
|     | 16 09 56 | -57 19.7 |          |          |      |
| 270 | same     |          | 45.9     | 32.5     |      |
|     |          | 11.8     | 4.9      |          |      |
|     |          | 57.7     | 37.4     |          |      |
|     | 16 07 30 | 57 07.2  | 332      | 33.5     |      |
|     | 07 30    | 7.2      | 85       | 5.1      |      |
|     | 16 07 30 | -57 07.2 |          |          |      |
| 229 | same     |          | 48.2     | 22.9     |      |
|     |          | 9.3      | 14.5     |          |      |
|     | 16 07 12 | 57 17.1  | 350      | 23.6     |      |
|     | 07 12    | 17.1     | 67       | 15.6     |      |
|     | 16 07 12 | -57 17.1 |          |          |      |
| 230 | 56.7593  | 16 04 09 | -56 31.0 | 7.3      | 7.3  |
|     | 56.7345  | 01 42    | 11.4     | 14.3     | 11.3 |
|     | 2 -27    | 19.6     | 21.6     | 18.6     |      |
|     | 16 03 19 | 56 23.3  | 50       | 7.7      |      |
|     | 03 19    | 23.3     | 97       | 11.9     |      |
|     | 16 03 19 | -56 23.3 |          |          |      |

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45

| Star | RA       | Dec      | Magnitude | Other Data |
|------|----------|----------|-----------|------------|
| 175  | 16 13 02 | -57 40.7 | 25.6      | 20.3       |
| 30   | 06 05    | 02.1     | 31.9      | 17.1       |
| 193  | 16 09 56 | 19.7     | 186       | 21.0       |
|      | 09 56    | 57 19.7  | 231       | 17.7 - 1   |
|      | 16 09 56 | -57 19.7 |           |            |
| 270  | same     |          | 45.9      | 32.5       |
|      |          | 11.8     | 4.9       |            |
|      |          | 57.7     | 37.4      |            |
|      | 16 07 30 | 57 07.2  | 332       | 33.5       |
|      | 07 30    | 7.2      | 85        | 5.1        |
|      | 16 07 30 | -57 07.2 |           |            |
| 229  | same     |          | 48.2      | 22.9       |
|      |          | 9.3      | 14.5      |            |
|      | 16 07 12 | 57 17.1  | 350       | 23.6       |
|      | 07 12    | 17.1     | 67        | 15.6       |
|      | 16 07 12 | -57 17.1 |           |            |
| 230  | 56.7593  | 16 04 09 | -56 31.0  | 7.3        |
|      | 56.7345  | 01 42    | 11.4      | 14.3       |
|      | 2 -27    | 19.6     | 21.6      | 18.6       |
|      | 16 03 19 | 56 23.3  | 50        | 7.7        |
|      | 03 19    | 23.3     | 97        | 11.9       |
|      | 16 03 19 | -56 23.3 |           |            |

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 Extracted Dec-02-2022 08:46:28

|     |      |          |          |          |
|-----|------|----------|----------|----------|
| 339 | same |          | 2.9      | 12.4     |
|     |      |          | 39.7     | 25.1     |
|     |      |          | 42.6     | 37.5     |
|     |      | 16 10 56 | 27.4     | 20 12.6  |
|     |      | 10 56    | 56 27.8  | 278 25.6 |
|     |      | 16 10 56 | -56 27.6 |          |

Project PhAEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

47  
A1985

[[6 Columned Table]]

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|     |         |     |     |      |      |      |      |     |
|-----|---------|-----|-----|------|------|------|------|-----|
| 214 | 56.7604 | 16  | 13  | 29   | -56  | 13.4 | 7.0  | 7.0 |
|     | 55.7485 | 15  | 01  | 55   | 59.2 | 4.3  | 7.9  |     |
|     |         | 92  |     | 14.2 | 11.3 | 14.9 |      |     |
|     |         | 14  | 26  | 56   | 06.7 | 57   | 6.7  |     |
|     |         | 14  | 26  |      | 6.7  | 35   | 7.5  |     |
|     |         | 16  | 14  | 26   | -56  | 06.7 |      |     |
| 231 | 56.7676 | 16  | 17  | 36   | -56  | 42.9 | 15.9 | 9.5 |
|     | 7604    | 13  | 29  |      | 13.4 | 18.7 | 20.6 |     |
|     |         | 247 |     | 29.5 | 34.6 | 30.1 |      |     |
|     |         | 15  | 43  |      | 33.6 | 113  | 9.3  |     |
|     |         | 15  | 43  |      | 33.6 | 134  | 20.2 |     |
|     |         | 16  | 15  | 43   | -56  | 33.6 |      |     |
| 336 | 56.7645 | 16  | 15  | 37   | -57  | 02.9 | 64   | 8.0 |
|     | 7676    | 17  | 36  | 56   | 42.9 | 10.0 | 11.8 |     |
|     |         | 119 |     | 20.0 | 16.1 | 11.8 |      |     |
|     |         | 16  | 22  | 56   | 54.9 | 45   |      |     |
|     |         | 16  | 22  |      | 54.7 | 74   |      |     |
|     |         | 16  | 16  | 22   | -56  | 54.8 |      |     |
| 7   | 56.7676 | 16  | 17  | 36   | -56  | 42.9 | 16.0 | 9.8 |
|     | 7710    | 20  | 22  |      | 26.9 | 7.0  | 6.2  |     |
|     |         | 2   | -46 |      | 16.0 | 23.0 | 16.0 |     |
|     |         | 19  | 32  |      | 33.1 | 116  |      |     |
|     |         | 19  | 32  | 56   | 33.1 | 50   |      |     |
|     |         | 16  | 19  | 32   | -56  | 33.1 |      |     |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

|     |         |     |      |      |      |      |     |      |
|-----|---------|-----|------|------|------|------|-----|------|
| 137 | 56.7676 | 16  | 20   | 20   | -56  | 51.6 | 5.0 | 11.0 |
| 77  | 10      | 08  | 340  | 3.0  | 6.0  |      |     |      |
|     |         | 5.8 | 17.6 | 8.0  | 17.0 |      |     |      |
|     | 16      | 20  | 56   | 40.2 | 36   | 11.4 |     |      |
|     | 20      | 56  | 56   | 40.2 | 22   | 62   |     |      |
|     | 16      | 20  | 56   | -56  | 40.2 |      |     |      |

|     |         |    |         |         |        |        |
|-----|---------|----|---------|---------|--------|--------|
| 48  | AMT     |    |         |         |        |        |
| 334 | 25 2054 | 14 | 18 57   | 17      | 17.5   | 21.2 ✓ |
|     | 25 749  |    | 17 26   | 15 53   | 16 7.5 | 14.5 ✓ |
|     |         |    | 17      | 2.6     | 11.3   | 21.1   |
|     |         | 19 | 15 53   | 16 11.1 | 17     |        |
|     |         |    | 17 53   | 19.2    | 12.8   |        |
|     |         | 14 | 18 53   | 19 16.2 |        |        |
| 345 | 25 2054 |    |         |         | 2.2    | 14.2   |
|     |         |    |         |         | 16     | 19.3   |
|     |         |    |         |         | 15.5   | 16.1   |
|     |         | 14 | 15 53   | 17 17.7 | 20     |        |
|     |         |    | 15 14   | 13      | 17     |        |
|     |         | 14 | 15 53   | 17 16.4 |        |        |
| 353 | 25 2054 |    |         |         | 4.1    | 2.0    |
|     |         |    |         |         | 15.2   | 14.2   |
|     |         |    |         |         | 17.7   | 16.3   |
|     |         | 14 | 18 11   | 17 17.2 | 19.6   |        |
|     |         |    | 17 11   |         | 2.1    | 16     |
|     |         | 14 | 18 11   | 17 17.2 | 19.6   |        |
| 361 | 25 2054 | 14 | 18 40   | 17 17.2 | 17.1   | 16.1   |
|     | 25 749  |    | 17 17   | 19.6    | 14     | 19     |
|     |         |    | 17      | 17.2    | 14     | 19.1   |
|     |         | 14 | 17 17   | 17.2    | 16     | 11.2   |
|     |         |    | 17 17   | 19.6    | 14     | 14     |
|     |         | 14 | 18 17.4 | 19 16.2 |        |        |

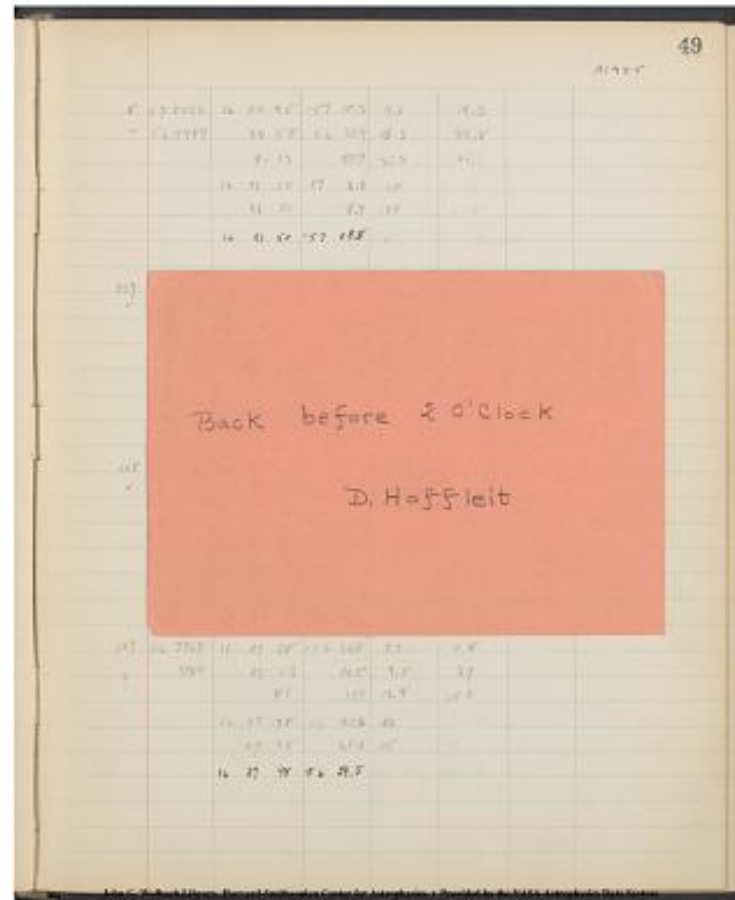
49  
A1985

[[6 Columned Table]]

---|---|---|---|---|---

|                                                                                         |          |          |          |      |      |
|-----------------------------------------------------------------------------------------|----------|----------|----------|------|------|
| 8                                                                                       | 57.8032  | 16 20 45 | -57 18.3 | 9.0  | 12.3 |
| [[Checkmark]]   56. 7747   24 58   56 32.9   26.3   32.8                                |          |          |          |      |      |
|                                                                                         | 4- 13    | 45.4     | 35.3     | 45.1 |      |
|                                                                                         | 16 21 50 | 57 06.0  | 65       |      |      |
|                                                                                         | 21 50    | 5.7      | 188      |      |      |
|                                                                                         | 16 21 50 | -57 05.8 |          |      |      |
| 337   [[ Note Covering Page]] Back before 2 o'clock D. Hoffleit [[ Note Covering Page]] |          |          |          |      |      |
| 108                                                                                     |          |          |          |      |      |
| 109                                                                                     | 56.7769  | 16 27 28 | -56 36.4 | 2.9  | 11.8 |
| ?                                                                                       | 7780     | 28 53    | 20.5     | 9.5  | 3.7  |
|                                                                                         | 85       | 15.9     | 12.4     | 15.5 |      |
|                                                                                         | 16 27 48 | 56 27.6  | 20       |      |      |
|                                                                                         | 27 48    | 24.2     | 65       |      |      |
|                                                                                         | 16 27 48 | -56 24.5 |          |      |      |

ORANGE PAPER  
Back before 2 o'clock  
D.Hoffleit



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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[This page contains a horizontally placed note over the original document which adds to the contents however blocks the center portion of the page]  
[This page is in grid format with five columns and sixteen rows on the original document]

49  
A1985  
[5 columns]  
|---|---|---|---|

|         |         |      |      |      |      |      |     |      |
|---------|---------|------|------|------|------|------|-----|------|
| 8       | 57.8032 | 16   | 20   | 45   | -57  | 18.3 | 9.0 | 12.3 |
| 56.7747 | 24      | 58   | 56   | 32.9 | 26.3 | 32.8 |     |      |
| 4-13    | 45.4    | 35.3 | 45.1 |      |      |      |     |      |
| 16      | 24      | 50   | 57   | 6.0  | 65   |      |     |      |
| 21      | 50      | 5.7  | 188  |      |      |      |     |      |
| 16      | 21      | 50   | -57  | 05.8 |      |      |     |      |

337 [Note begins here (see below)]

108

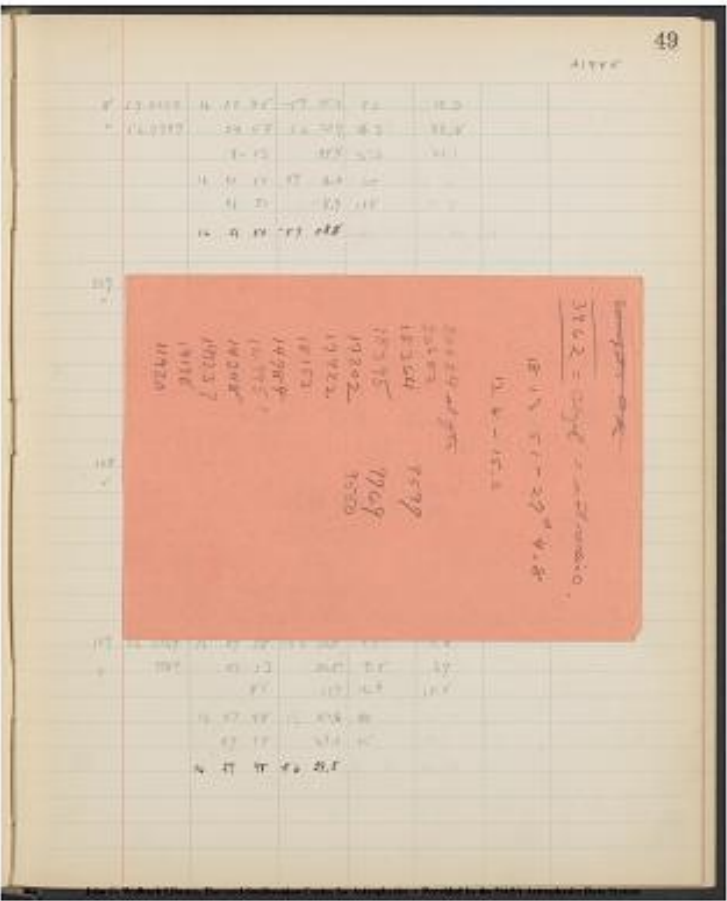
[Note ends here (see below)]

|     |         |      |      |      |     |      |     |      |
|-----|---------|------|------|------|-----|------|-----|------|
| 109 | 36.7769 | 16   | 27   | 28   | -56 | 36.4 | 2.9 | 11.8 |
| ?   | 7780    | 28   | 53   | 20.5 | 9.5 | 3.7  |     |      |
|     | 85      | 15.9 | 12.4 | 15.5 |     |      |     |      |
| 16  | 27      | 48   | 56   | 27.6 | 20  |      |     |      |
| 27  | 48      | 24.2 | 65   |      |     |      |     |      |
| 16  | 27      | 48   | -56  | 24.5 |     |      |     |      |

[NOTE]  
[[?] OK strikethrough]  
-----  
3962 = algol = [?]

18 13 51 - 24[degrees] 4.8  
13.8 - 15.0

|       |    |      |
|-------|----|------|
| 20624 | sl | fr   |
| 20682 |    | 9597 |
| 18364 |    |      |
| 18395 |    | 9769 |
| 17202 |    | 9550 |



17422  
18153  
14784  
16975  
14248  
14723?  
14178  
11920

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
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49  
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[[6 columns]]  
|---|---|---|---|---|

| 8 | 57.8032 | 16 20 45 | -57 18.3 | 9.0 | 12.3 |  
| 56.7747 | 24 58 | 56 32.9 | 26.3 | 32.8 |  
| | 4-13 | 45.4 | 35.3 | 45.1 |  
| | 16 21 50 | 57 6.0 | 65 | |  
| | 21 50 | 5.7 | 188 | |  
| | 16 21 50 | -57 05.8 | | |

| 337 | same | | | 23.1 | 17.8 |  
| | | | 12.2 | 27.3 |  
| | | | 35.3 | 45.1 |  
| | 16 23 31 | 57 0.5 | 166 | |  
| | 23 31 | 0.2 | 87 | |  
| | 16 23 31 | -57 00.4 | | |

| 108 | same | | | 29.7 | 31.9 |  
| | | | 5.7 | 13.2 | |  
| | | | 35.4 | 45.1 | |  
| | 16 24 18 | 56 46.4 | 213 | |  
| | 24 17 | 46.1 | 41 | |  
| | 18 | 56 46.2 | | |  
| 109 | 56.7769 | 16 27 28 | -56 36.9 | 2.9 | 11.8 |  
| 7780 | 28 53 | 20.5 | 9.5 | 3.7 |  
| ? | | 85 | 15.9 | 12.4 | 15.5 | |  
| | 16 27 48 | 56 27.6 | 20 | |  
| | 27 48 | 24.2 | 65 | |  
| | 16 27 48 | -56 24.5 | | |

49

A1985

|          |          |          |          |      |      |
|----------|----------|----------|----------|------|------|
| 16 20 45 | 57 18.3  | 9.0      | 12.3     |      |      |
| 24 58    | 56 32.9  | 26.3     | 32.8     |      |      |
| 4-13     | 45.4     | 35.3     | 45.1     |      |      |
| 16 21 50 | 57 6.0   | 65       |          |      |      |
| 21 50    | 5.7      | 188      |          |      |      |
| 16 21 50 | -57 05.8 |          |          |      |      |
| 337      | same     |          |          |      |      |
|          |          | 23.1     | 17.8     |      |      |
|          |          | 12.2     | 27.3     |      |      |
|          |          | 35.3     | 45.1     |      |      |
| 16 23 31 | 57 0.5   | 166      |          |      |      |
| 23 31    | 0.2      | 87       |          |      |      |
| 16 23 31 | -57 00.4 |          |          |      |      |
| 108      | same     |          |          |      |      |
|          |          | 29.7     | 31.9     |      |      |
|          |          | 5.7      | 13.2     |      |      |
|          |          | 35.4     | 45.1     |      |      |
| 16 24 18 | 56 46.4  | 213      |          |      |      |
| 24 17    | 46.1     | 41       |          |      |      |
| 18       | 56 46.2  |          |          |      |      |
| 109      | 56.7769  | 16 27 28 | -56 36.9 | 2.9  | 11.8 |
| 7780     | 28 53    | 20.5     | 9.5      | 3.7  |      |
| ?        | 85       | 15.9     | 12.4     | 15.5 |      |
|          | 16 27 48 | 56 27.6  | 20       |      |      |
|          | 27 48    | 24.2     | 65       |      |      |
|          | 16 27 48 | -56 24.5 |          |      |      |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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50

A1985

[[6 columns]]

---|---|---|---|---|---

|81|56.7747|16 24 58|-56 32.9|4.3|12.8|  
 |55.7567| 23 03|55 56.3|10.6|24.9|  
 | | 115| 36.6|14.9|37.7|  
 | | 16 27 25|56 20.5|33|12.4|  
 | | 24 25|56 20.5|82|24.2|  
 | | 16 24 25|-56 20.5| | |

|232|55.7567|16 23 03|-55 56.3|21.6|20.1|  
 |7551| 19 42| 24.5|6.8|12.2|  
 | | 3- 21| 31.8|28.4|32.3|  
 | | 20 29+|55 36.2|154-| |  
 | | 20 30| 36.7|48| |  
 | | 16 20 30|-55 36.5| | |

|21|55.7567|16 23 03|55 56.3|21.5|8.3|  
 |7595| 26 54| 34.1|11.8|13.2|  
 | | 3 51| 22.2|33.3|21.5|  
 | | 25 32| 47.7|149|8.6|  
 | | 16 25 32|-55 47.7|82|13.6|

|338|56.7747|16 24 58|-56 32.9|9.9|31.8|  
 |55.7567| 23 03|55 56.3|5.0|5.9|  
 | | 115| 36.6|14.9|37.7|  
 | | 16 23 42|56 2.0|76|30.9|  
 | | 42| 2.0|39|5.7|  
 | | 16 23 42|-56 02.0| | |

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51  
A3901

[[6 column table]]  
|---|---|---|---|---|

|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 115  | 56.7485  | 16 08 28 | -56 46.1 | 12.1 | 17.1 |
| 7321 | 16 05 45 | -56 08.4 | 12.1     | 19.5 |      |
|      | 02 43    | 37.7     | 24.2     | 36.6 |      |
|      | 07 07    | 28.5     | 81+      | 17.6 |      |
|      | 16 07 06 | 56 28.5  | 81+      | 20.1 |      |
|      | 16 07 06 | -56 28.5 |          |      |      |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 84   | 59.6757  | 16 22 03 | -59 38.9 | 7.5  | 9.0 |
| 6747 | 20 45    | 21.5     | 2.4      | 8.6  |     |
|      | 1 18     | 17.4     | 9.9      | 17.6 |     |
|      | 21 04    | 29.9     | 59       |      |     |
|      | 21 04    | 30.1     | 19       |      |     |
|      | 16 21 04 | -59 30.0 |          |      |     |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 11   | 58.6837  | 16 27 20 | -58 37.9 | 8.7  | 3.4 |
| 6845 | 29 57    | 25.1     | 12.2     | 8.9  |     |
|      | 2 -37    | 12.3     | 20.9     | 12.3 |     |
|      | 28 25    | -58 34.4 | 65       | 3.5  |     |
|      | 28 25    | 34.4     | 9.2      | 9.3  |     |
|      | 16 28 25 | -58 34.4 | 157      |      |     |

|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 106  | 54 68 70 | 16 33 17 | -58 54.6 | 13.1 | 15.8 |
| 6845 | 29 57    | 25.1     | 11.8     | 15.3 |      |
|      | 3 20     | 29.5     | 24.9     | 31.1 |      |
|      | 16 31 32 | 39.6     | 105      | 15.0 |      |
|      | 31 32    | 39.6     | 95       | 14.5 |      |
|      | 16 31 32 | -58 39.6 |          |      |      |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28

52  
A3901

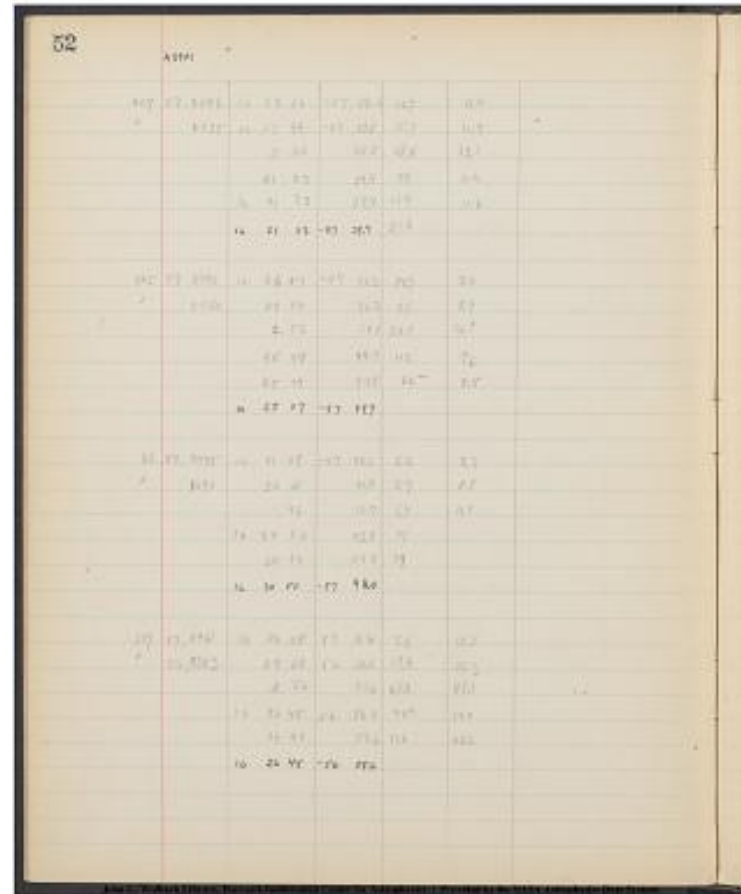
[[6 column table]]  
|---|---|---|---|---|

|      |          |          |          |      |      |
|------|----------|----------|----------|------|------|
| 307  | 57.8046  | 16 23 10 | -57 50.6 | 12.9 | 11.4 |
| 8025 | 16 17 34 | -57 27.8 | 15.7     | 11.7 |      |
|      | 3 36     | 22.8     | 28.8     | 23.1 |      |
|      | 21 33    | 39.4     | 97       | 11.2 |      |
|      | 16 21 33 | 39.4     | 119      | 11.6 |      |
|      | 16 21 33 | -57 39.4 | 216      |      |      |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 125  | 57 8070  | 16 26 39 | -57 52.3 | 14.7 | 8.0 |
| 8050 | 24 06    | 36.2     | 8.1      | 8.9  |     |
|      | 2 53     | 16.1     | 22.8     | 16.9 |     |
|      | 25 07    | 44.7     | 112      | 7.6  |     |
|      | 25 07    | 44.7     | 62       | 8.5  |     |
|      | 16 25 07 | -57 44.7 |          |      |     |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 82   | 57.8095  | 16 31 07 | -57 52.1 | 2.2  | 8.4 |
| 8090 | 30 21    | 41.4     | 3.7      | 8.8  |     |
|      | 46       | 10.7     | 5.9      | 11.1 |     |
|      | 16 30 50 | 43.8     | 17       |      |     |
|      | 30 50    | 44.2     | 29       |      |     |
|      | 16 30 50 | -57 44.0 |          |      |     |

|         |          |          |         |      |      |
|---------|----------|----------|---------|------|------|
| 107     | 57.8461  | 16 26 08 | 57 11.6 | 5.8  | 12.8 |
| 56.7783 | 29 04    | 56 30.0  | 19.4    | 28.3 |      |
|         | 2 56     | 41.6     | 25.2    | 81.1 |      |
|         | 16 26 48 | 56 58.6  | 40+     | 13.0 |      |
|         | 26 48    | 58.6     | 136     | 28.6 |      |
|         | 16 26 48 | -56 55.6 |         |      |      |



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Extracted Dec-02-2022 08:46:28

53  
 A3901  
 [[six columned table]]  
 |---|---|---|---|---|

|273|50.9733|16 29 04|-56 30.0|5.4|8.7|  
 |7799| 30 52| 07.9|10.3|13.3|  
 | | 1 48| 22.1|15.7|22.0|  
 | | 16 29 41|56 213|37| |  
 | | 29 41| 21.2|71| |  
 | | 16 29 41|-56 21.2| | |

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A3901

53

|      |         |    |    |    |      |      |      |     |
|------|---------|----|----|----|------|------|------|-----|
| 273  | 50.9733 | 16 | 29 | 04 | -56  | 30.0 | 5.4  | 8.7 |
| 7799 |         | 30 | 52 |    | 07.9 | 10.3 | 13.3 |     |
|      |         | 1  | 48 |    | 22.1 | 15.7 | 22.0 |     |
|      |         | 16 | 29 | 41 | 56   | 213  | 37   |     |
|      |         | 29 | 41 |    | 21.2 | 71   |      |     |
|      |         | 16 | 29 | 41 | -56  | 21.2 |      |     |

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 Extracted Dec-02-2022 08:46:28

54

A1833

[[six columned table]]

---|---|---|---|---|---

|     |         |          |          |      |      |
|-----|---------|----------|----------|------|------|
| 241 | 58.6156 | 15 33 32 | -58 12.2 | 12.9 | 12.7 |
|     | 57.7175 | 36 11    | 57 50.0  | 7.2  | 10.6 |
|     |         | 2-39     | 22.2     | 20.1 | 23.3 |
|     |         | 35 14    | 58 60.1  | 102  | 12.1 |
|     |         | 35 14    | 00.1     | 57   | 10.1 |
|     |         | 15 35 14 | -58 00.1 |      |      |

|    |         |          |          |      |      |
|----|---------|----------|----------|------|------|
| 78 | 57.7259 | 15 42 04 | 57 34.7  | 18.0 | 28.7 |
|    | 56.6885 | 38 26    | 56 58.1  | 12.9 | 7.5  |
|    |         | 3-38     | 36.6     | 30.9 | 36.2 |
|    |         | 15 39 57 | 57 5.7   | 12.7 | 29.0 |
|    |         | 39 59    | 5.9      | 9.1  | 7.6  |
|    |         | 15 39 57 | -57 05.7 |      |      |

|     |      |          |          |      |      |
|-----|------|----------|----------|------|------|
| 294 | same |          | 5.8      | 13.5 |      |
|     |      |          | 25.0     | 22.5 |      |
|     |      |          | 30.8     | 36.0 |      |
|     |      | 15 41 23 | 57 21.0  | 41   | 13.7 |
|     |      | 41 23    | 21.0     | 176+ | 22.9 |
|     |      | 15 41 23 | -57 21.0 |      |      |

|    |         |          |          |      |      |
|----|---------|----------|----------|------|------|
| 38 | 59.6361 | 15 42 24 | 59 21.2  | 6.1  | 12.9 |
|    | 58.6397 | 43 58    | 58 58.5  | 5.5  | 9.1  |
|    |         | 94       | 22.7     | 11.6 | 22.0 |
|    |         | 43 13    | 59 07.9  | 49   | 13.3 |
|    |         | 15 43 13 | 04.9     | 45   | 9.4  |
|    |         | 15 43 13 | -59 07.9 |      |      |

|     |         |          |          |      |      |  |
|-----|---------|----------|----------|------|------|--|
| 54  | A1833   |          |          |      |      |  |
| 191 | 58.6156 | 15 33 32 | -58 12.2 | 12.9 | 12.7 |  |
| 192 | 57.7175 | 36 11    | 57 50.0  | 7.2  | 10.6 |  |
|     |         | 2-39     | 22.2     | 20.1 | 23.3 |  |
|     |         | 35 14    | 58 60.1  | 102  | 12.1 |  |
|     |         | 35 14    | 00.1     | 57   | 10.1 |  |
|     |         | 15 35 14 | -58 00.1 |      |      |  |
| 78  | 57.7259 | 15 42 04 | 57 34.7  | 18.0 | 28.7 |  |
| 79  | 56.6885 | 38 26    | 56 58.1  | 12.9 | 7.5  |  |
|     |         | 3-38     | 36.6     | 30.9 | 36.2 |  |
|     |         | 15 39 57 | 57 5.7   | 12.7 | 29.0 |  |
|     |         | 39 59    | 5.9      | 9.1  | 7.6  |  |
|     |         | 15 39 57 | -57 05.7 |      |      |  |
| 294 | same    |          |          | 5.8  | 13.5 |  |
|     |         |          |          | 25.0 | 22.5 |  |
|     |         |          |          | 30.8 | 36.0 |  |
|     |         | 15 41 23 | 57 21.0  | 41   | 13.7 |  |
|     |         | 41 23    | 21.0     | 176+ | 22.9 |  |
|     |         | 15 41 23 | -57 21.0 |      |      |  |
| 38  | 59.6361 | 15 42 24 | 59 21.2  | 6.1  | 12.9 |  |
|     | 58.6397 | 43 58    | 58 58.5  | 5.5  | 9.1  |  |
|     |         | 94       | 22.7     | 11.6 | 22.0 |  |
|     |         | 43 13    | 59 07.9  | 49   | 13.3 |  |
|     |         | 15 43 13 | 04.9     | 45   | 9.4  |  |
|     |         | 15 43 13 | -59 07.9 |      |      |  |

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55

A1833

[[six columned table]]

|---|---|---|---|---|

|     |          |          |         |      |      |
|-----|----------|----------|---------|------|------|
| 291 | 56.7055? | 15 48 41 | -57 026 | 33.5 | 26.4 |
|     | 55.6924  | 42 08    | 56 04.9 | 21.9 | 30.9 |
|     | 6 33     | 57.7     | 55.4    | 57.3 |      |
|     | 15 44 44 | 56 36.2  | 23.7    |      |      |
|     | 44 43    | 35.8     | 15.5    |      |      |
|     | 15 44 44 | -56 36.0 |         |      |      |

|     |                      |          |      |      |      |
|-----|----------------------|----------|------|------|------|
| 268 | same                 |          | 33.6 | 42.0 |      |
|     |                      |          | 21.8 | 15.3 |      |
|     | [[symbol-checkmark]] |          |      | 55.4 | 57.3 |
|     | 15 44 43             | 56 20.6  | 238  |      |      |
|     | 44 42                | 20.2     | 154  |      |      |
|     | 15 44 42             | -56 20.4 |      |      |      |

|     |                      |          |          |          |      |
|-----|----------------------|----------|----------|----------|------|
| 185 | 57.7450              | 15 52 36 | -57 41.3 | 19.0     | 8.4  |
|     | [[symbol-checkmark]] | 2055     | 15 48 41 | -57 02.6 | 12.8 |
|     | 5-55                 | 38.7     | 31.5     | 39.0     |      |
|     | 50 16                | 32.9     | 14.0     |          |      |
|     | 50 16                | 33.2     | 95       |          |      |
|     | 15 50 16             | -57 33.0 |          |          |      |

|     |                      |          |      |      |                                                  |
|-----|----------------------|----------|------|------|--------------------------------------------------|
| 162 | same                 |          | 20.8 | 12.2 | [[symbol-arrow pointing to cell directly below]] |
|     | [[symbol-checkmark]] |          |      | 11.0 | 26.9                                             |
|     |                      |          |      |      | [[symbol-arrow pointing to cell directly above]] |
|     |                      |          | 31.8 | 39.1 |                                                  |
|     | 15 50 02             | 14.4     | 154  |      |                                                  |
|     | 50 02                | 14.8     | 81   |      |                                                  |
|     | 15 50 02             | -57 14.6 |      |      |                                                  |

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 Extracted Dec-02-2022 08:46:28

56

A1833

[[six columned table]]

---|---|---|---|---|---

|      |          |          |         |      |      |
|------|----------|----------|---------|------|------|
| 161  | 57.7512  | 15 55 51 | 57 54.2 | 14.2 | 10.9 |
| 7450 | 52 36    | 41.3     | 11.8    | 2.5  |      |
|      | 3 - 15   | 12.9     | 26.0    | 13.4 |      |
|      | 15 54 05 | 57 43.7  | 106     | 10.5 |      |
|      | 54 05    | 43.7     | 8.9     | 2.4  |      |
|      | 15 54 05 | 57 43.7  |         |      |      |

|    |          |          |         |      |      |
|----|----------|----------|---------|------|------|
| 39 | 58.6573  | 15 52 59 | 58 32.0 | 15.0 | 25.8 |
|    | 57.7512  | 55 51    | 57 4.2  | 8.7  | 12.1 |
|    | 2-52     | 37.8     | 23.7    | 37.9 |      |
|    | 54 48    | 58 06.2  | 109     |      |      |
|    | 54 48    | 58 6.3   | 63      |      |      |
|    | 15 54 48 | 58 06.2  |         |      |      |
| 22 | 58.6551  | 15 51 32 | 58 43.3 | 4.7  | 8.2  |
|    | 6573     | 52 59    | 32.6    | 6.8  | 3.2  |
|    | 87       | 11.3     | 11.5    | 11.4 |      |
|    | 52 08    | 35.1     | 35.6    |      |      |
|    | 52 08    | 35.2     | 51.4    |      |      |
|    | 15 52 08 | 58 35.2  |         |      |      |
| 20 | 59.6603  | 15 58 15 | 59 37.0 | 2.7  | 5.8  |
|    | 6601     | 15 57 41 | 59 25.0 | 1.3  | 3.5  |
|    | 34       | 12.0     | 4.0     | 12.3 |      |
|    | 57 52    | 28.2     | 23      |      |      |
|    | 15 57 52 | 28.5     | 11      |      |      |
|    | 15 57 52 | 59 28.4  |         |      |      |

| 56   | A1833    |          |         |      |      |
|------|----------|----------|---------|------|------|
| 161  | 57.7512  | 15 55 51 | 57 54.2 | 14.2 | 10.9 |
| 7450 | 52 36    | 41.3     | 11.8    | 2.5  |      |
|      | 3 - 15   | 12.9     | 26.0    | 13.4 |      |
|      | 15 54 05 | 57 43.7  | 106     | 10.5 |      |
|      | 54 05    | 43.7     | 8.9     | 2.4  |      |
|      | 15 54 05 | 57 43.7  |         |      |      |
| 39   | 58.6573  | 15 52 59 | 58 32.0 | 15.0 | 25.8 |
|      | 57.7512  | 55 51    | 57 4.2  | 8.7  | 12.1 |
|      | 2-52     | 37.8     | 23.7    | 37.9 |      |
|      | 54 48    | 58 06.2  | 109     |      |      |
|      | 54 48    | 58 6.3   | 63      |      |      |
|      | 15 54 48 | 58 06.2  |         |      |      |
| 22   | 58.6551  | 15 51 32 | 58 43.3 | 4.7  | 8.2  |
|      | 6573     | 52 59    | 32.6    | 6.8  | 3.2  |
|      | 87       | 11.3     | 11.5    | 11.4 |      |
|      | 52 08    | 35.1     | 35.6    |      |      |
|      | 52 08    | 35.2     | 51.4    |      |      |
|      | 15 52 08 | 58 35.2  |         |      |      |
| 20   | 59.6603  | 15 58 15 | 59 37.0 | 2.7  | 5.8  |
|      | 6601     | 15 57 41 | 59 25.0 | 1.3  | 3.5  |
|      | 34       | 12.0     | 4.0     | 12.3 |      |
|      | 57 52    | 28.2     | 23      |      |      |
|      | 15 57 52 | 28.5     | 11      |      |      |
|      | 15 57 52 | 59 28.4  |         |      |      |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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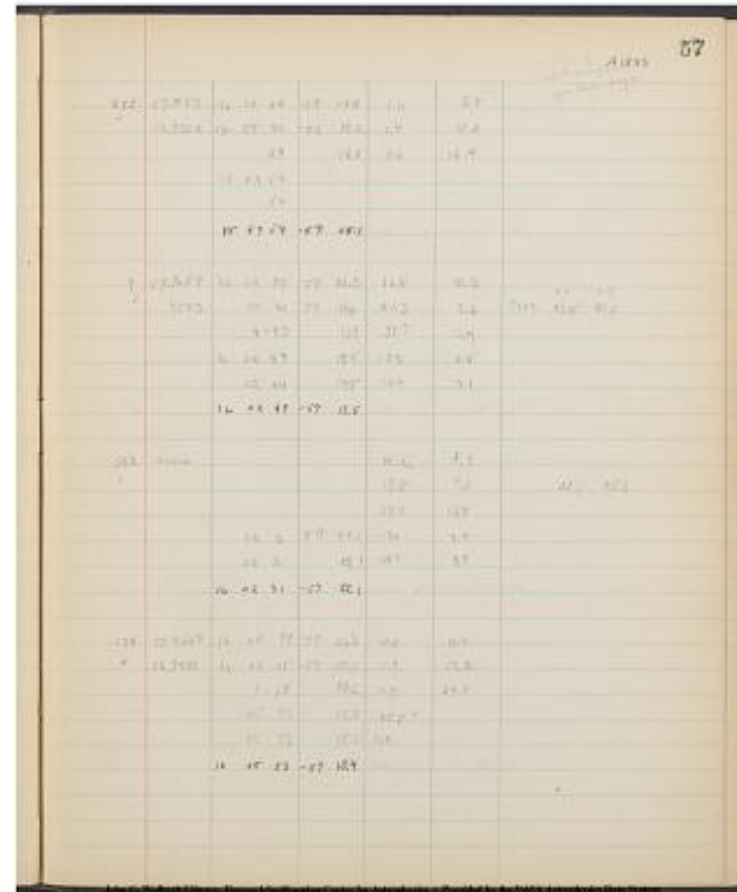
57

A1833

plot comparison for this page  
[[6 column table]]

---|---|---|---|---|---

252|57.7583|16 00 04|-57 14.4|1.0|6.4  
 |56.7302|15 59 40|-56 58.2|1.4|10.0|  
 | | 24| 16.2|2.4|16.4|  
 | | 15 59 54| | | |  
 | | 54| | | |  
 | | 15 59 54|-57 08.1| | |  
 9|57.7684|16 04 47|-57 26.3|16.4|10.3|  
 |7583| 00 04|57 14.4|21.3|3.6|7302 23.8 [[ x written above 23.8]]|20.0  
 [[ y written above 23.8]]  
 | | 4 -43| 11.9|37.7|13.9|  
 | | 16 02 44| 17.5|123|8.8|  
 | | 02 44| 17.5|160|3.1|  
 | | 16 02 44|-57 17.5| | |  
 332|same| | 18.2|4.9|  
 | | 19.8|9.0| 22.1 25.6  
 | | 38.0|13.9|  
 | | 02 31|57 22.1|136|4.2|  
 | | 02 31| 22.1|147|7.7|  
 | | 16 02 31|-57 22.1| | |  
 134|57.7684|16 04 47|-57 26.3|10.0|10.8|  
 |56.7434|16 06 05|-57 02.1|1.9|13.2|  
 | | 1 - 8| 24.2|11.9|24.0|  
 | | 05 53| 15.5|65.5+| |  
 | | 05 53| 15.3|12.4| |  
 | | 16 05 53|-57 15.4| | |



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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59

A1833

[[6 Columns]]

---|---|---|---|---|---

159|58.6710|16 07 38|58 09.8|14.2|7.9|  
 |57.7664|16 03 37|[-]57 48.1|16.0|16.1[+]|  
 | | 241| 21.7|30.2|24.0|  
 | | 05 45|58 02.6|113|7.2|  
 | | 05 45| 2.6|128|14.5|  
 | | 16 05 45|-58 02.6| | |

160|57.7664|16 03 37|-57 48.1|6.3|4.9|  
 ?|7684| 04 47| 26.3|4.2|16.3|  
 | | 70| 21.8|10.5|21.2|  
 | | 16 04 19|57 43.1|42|5.0|  
 | | 04 19| 43.1|28|16.8|  
 | | 16 04 19|-57 43.1| | |

59

|         |          |            |          |      |     |
|---------|----------|------------|----------|------|-----|
| 159     | 58.6710  | 16 07 38   | 58 09.8  | 14.2 | 7.9 |
| 57.7664 | 16 03 37 | [-]57 48.1 | 16.0     | 16.1 | [+] |
|         | 241      | 21.7       | 30.2     | 24.0 |     |
|         | 05 45    | 58 02.6    | 113      | 7.2  |     |
|         | 05 45    | 2.6        | 128      | 14.5 |     |
|         | 16 05 45 | -58 02.6   |          |      |     |
| 160     | 57.7664  | 16 03 37   | -57 48.1 | 6.3  | 4.9 |
| ? 7684  | 04 47    | 26.3       | 4.2      | 16.3 |     |
|         | 70       | 21.8       | 10.5     | 21.2 |     |
|         | 16 04 19 | 57 43.1    | 42       | 5.0  |     |
|         | 04 19    | 43.1       | 28       | 16.8 |     |
|         | 16 04 19 | -57 43.1   |          |      |     |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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 Extracted Dec-02-2022 08:46:28



61

A13337

[[7 columned table]]

| --- | --- | --- | --- | --- | --- | --- |

|      |          |          |         |      |     |  |
|------|----------|----------|---------|------|-----|--|
| 76   | 60.5903  | 15 27 00 | 60 37.1 | 10.4 | 7.2 |  |
| 5873 | 24 54    | 24.0     | 5.4     | 5.6  |     |  |
|      | 126      | 13.1     | 15.8    | 12.8 |     |  |
|      | 25 37    | 29.6     | 43      |      |     |  |
|      | 15 25 37 | -60 29.8 |         |      |     |  |

|      |          |           |              |          |          |
|------|----------|-----------|--------------|----------|----------|
| 4    | 60.5946  | 1.5 29 39 | 60 40.6      |          | CPD 5965 |
| 5980 | 31 45    | 09.3      |              |          |          |
|      | 126      | 31.3      |              | 15 31 02 | -60 33.9 |
|      | 15 31 02 | -60 33.9  | =CPD-60.5965 |          |          |

|    |          |          |      |      |
|----|----------|----------|------|------|
| 36 | same     | 5.1      | 13.2 |      |
|    |          | 10.3     | 18.7 |      |
|    |          | 15.4     | 31.9 |      |
|    | 15 30 21 | 27.7     | 42   | 13.0 |
|    | 30 21    | 27.7     | 84   | 18.4 |
|    | 15 30 21 | -60 27.7 |      |      |

|     |          |          |      |        |
|-----|----------|----------|------|--------|
| 289 | same     | 12.2     | 25.2 |        |
|     |          | 3.2      | 6.7  |        |
|     |          | 31.9     |      |        |
|     | 15 31 19 | 15.9     | 100  | 24.8-1 |
|     | 31 19    | 15.9     | 26   | 66     |
|     | 15 31 19 | -60 15.9 |      |        |

61

A13337

|      |          |           |              |          |          |
|------|----------|-----------|--------------|----------|----------|
| 21   | 40.4302  | 15 42 00  | 40 55.1      | 14.9     | 5.1      |
|      | 5723     | 23 38     | 23.0         | 5.1      | 5.1      |
|      |          | 126       | 13.1         | 15.8     | 12.8     |
|      | 25 37    | 29.6      | 43           |          |          |
|      | 15 25 37 | -60 29.8  |              |          |          |
| 4    | 60.5946  | 1.5 29 39 | 60 40.6      |          | CPD 5965 |
| 5980 | 31 45    | 09.3      |              |          |          |
|      | 126      | 31.3      |              | 15 31 02 | -60 33.9 |
|      | 15 31 02 | -60 33.9  | =CPD-60.5965 |          |          |
| 36   | same     | 5.1       | 13.2         |          |          |
|      |          | 10.3      | 18.7         |          |          |
|      |          | 15.4      | 31.9         |          |          |
|      | 15 30 21 | 27.7      | 42           | 13.0     |          |
|      | 30 21    | 27.7      | 84           | 18.4     |          |
|      | 15 30 21 | -60 27.7  |              |          |          |
| 289  | same     | 12.2      | 25.2         |          |          |
|      |          | 3.2       | 6.7          |          |          |
|      |          | 31.9      |              |          |          |
|      | 15 31 19 | 15.9      | 100          | 24.8-1   |          |
|      | 31 19    | 15.9      | 26           | 66       |          |
|      | 15 31 19 | -60 15.9  |              |          |          |

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62

A13337

[[6 columns]]

|---|---|---|---|

|     |         |          |          |      |      |
|-----|---------|----------|----------|------|------|
| 308 | 60.6031 | 15 35 20 | -60 54.0 | 5.1  | 4.2  |
|     | 6080    | 38 45    | 16.1     | 20.8 | 33.6 |
|     |         | 3 25     | 37.9     | 25.9 | 37.8 |
|     |         | 15 36 00 | 49.8     | 40   |      |
|     |         | 36 00    | 49.7     | 165  |      |
|     |         | 15 36 00 | -60 49.8 |      |      |

|    |      |          |          |       |      |
|----|------|----------|----------|-------|------|
| 66 | same |          |          | 18.1  | 32.2 |
|    |      |          |          | 7.8   | 5.4  |
|    |      |          |          |       | 37.6 |
|    |      | 15 37 43 | 21.8     | 144-1 |      |
|    |      | 37 43    | 21.5     | 62    |      |
|    |      | 15 37 43 | -60 21.6 |       |      |

|     |         |          |          |      |      |
|-----|---------|----------|----------|------|------|
| 323 | 61.5274 | 15 40 14 | -61 39.6 | 14.6 | 17.7 |
|     | 5318    | 43 22    | 12.4     | 9.8  | 9.0  |
|     |         | 188      | 27.2     | 24.4 | 26.7 |
|     |         | 42 07    | 61 21.6  | 113  | 18.0 |
|     |         | 42 07    | 21.6     | 75   | 9.2  |
|     |         | 15 42 07 | -61 21.6 |      |      |

|     |         |          |          |      |      |
|-----|---------|----------|----------|------|------|
| 297 | 61.5318 | 15 43 22 | 61 12.4  | 11.9 | 14.8 |
|     | 60.6115 | 40 58    | 60 52.4  | 4.6  | 6.2  |
|     |         | 2 24     | 20.0     | 16.5 | 21.0 |
|     |         | 41 38    | 60 58.3  | 104  | 14.1 |
|     |         | 41 38    | 58.3     | 40   | 5.9  |
|     |         | 15 41 38 | -60 58.3 |      |      |

62

A13337

|     |         |          |          |       |      |
|-----|---------|----------|----------|-------|------|
| 308 | 60.6031 | 15 35 20 | -60 54.0 | 5.1   | 4.2  |
|     | 6080    | 38 45    | 16.1     | 20.8  | 33.6 |
|     |         | 3 25     | 37.9     | 25.9  | 37.8 |
|     |         | 15 36 00 | 49.8     | 40    |      |
|     |         | 36 00    | 49.7     | 165   |      |
|     |         | 15 36 00 | -60 49.8 |       |      |
| 66  | same    |          |          | 18.1  | 32.2 |
|     |         |          |          | 7.8   | 5.4  |
|     |         |          |          |       | 37.6 |
|     |         | 15 37 43 | 21.8     | 144-1 |      |
|     |         | 37 43    | 21.5     | 62    |      |
|     |         | 15 37 43 | -60 21.6 |       |      |
| 323 | 61.5274 | 15 40 14 | -61 39.6 | 14.6  | 17.7 |
|     | 5318    | 43 22    | 12.4     | 9.8   | 9.0  |
|     |         | 188      | 27.2     | 24.4  | 26.7 |
|     |         | 42 07    | 61 21.6  | 113   | 18.0 |
|     |         | 42 07    | 21.6     | 75    | 9.2  |
|     |         | 15 42 07 | -61 21.6 |       |      |
| 297 | 61.5318 | 15 43 22 | 61 12.4  | 11.9  | 14.8 |
|     | 60.6115 | 40 58    | 60 52.4  | 4.6   | 6.2  |
|     |         | 2 24     | 20.0     | 16.5  | 21.0 |
|     |         | 41 38    | 60 58.3  | 104   | 14.1 |
|     |         | 41 38    | 58.3     | 40    | 5.9  |
|     |         | 15 41 38 | -60 58.3 |       |      |

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63

A13337

[[6 column table]]

|---|---|---|---|

|         |          |            |          |      |      |
|---------|----------|------------|----------|------|------|
| 325     | 61.5425  | 15 49 41.0 | -61 18.9 | 20.4 | 26.9 |
| 60.6164 | 44 59    | 60 49.2    | 11.8     | 5.3  |      |
|         | 4 42     | 29.7       | 32.2     | 32.2 |      |
|         | 15 46 43 | 60 54.1    | 1784     | 24.8 |      |
|         | 46 43    | 54.1       | 104      | 4.9  |      |
|         | 15 46 43 | 60 54.1    | 282      | 29.7 |      |

|      |          |          |         |     |     |
|------|----------|----------|---------|-----|-----|
| 64   | 61.5425  | 15 49 41 | 61 18.9 | 5.7 | 4.0 |
| 5438 | 50 40    | 10.3     | 2.0     | 4.0 |     |
|      | 59       | 8.6      | 7.7     | 8.0 |     |
|      | 50 25    | 14.6     | 44      | 4.3 |     |
|      | 50 25    | 14.6     | 15      | 4.3 |     |
|      | 15 50 25 | -61 14.6 |         |     |     |

|         |          |          |          |      |     |
|---------|----------|----------|----------|------|-----|
| 120     | 60.6345  | 15 41 12 | -59 50.5 | 6.4  | 8.7 |
| 59.6311 | 39 17    | 26.8     | 7.5      | 15.8 |     |
|         | 115      | 23.7     | 13.9     | 24.5 |     |
|         | 40 19    | 59 42.1  | 62       | 8.4  |     |
|         | 40 119   | 42.1     | 63       | 15.3 |     |
|         | 15 40 19 | -59 42.1 |          |      |     |

|      |          |          |          |      |     |
|------|----------|----------|----------|------|-----|
| 77   | 59.6311  | 15 39 17 | -59 26.8 | 7.6  | 3.3 |
| 6204 | 35 27    | 02.2     | 21.0     | 21.2 |     |
|      | 3-50     | 24.6     | 28.6     | 24.5 |     |
|      | 15 38 16 | 23.5     | 61       |      |     |
|      | 38 16    | 23.4     | 169      |      |     |
|      | 15 38 16 | -59 23.4 |          |      |     |

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63

41527

|         |          |           |          |      |      |
|---------|----------|-----------|----------|------|------|
| 58.0    | 44.1705  | 40 30.330 | 41 105   | 40.4 | 46.7 |
| 40.1445 | 33.35    | 40 34.2   | 31.9     | 35.3 |      |
|         | 3 12     | 23.2      | 24.2     | 27.3 |      |
|         | 12 34.33 | 40 23.1   | 31.5     | 33.0 |      |
|         | 31.75    | 33.1      | 14.1     | 1.3  |      |
|         | 40 34.33 | 40 33.2   | 20.3     | 25.3 |      |
| 49      | 41.6725  | 30 35.35  | 31 18.5  | 30.7 | 34.1 |
| 4734    | 24.75    | 30.8      | 30.8     | 30.8 |      |
|         | 23       | 34        | 2.7      | 3.0  |      |
|         | 30 45    | 35.3      | 3.3      | 3.3  |      |
|         | 31 12    | 34        | 11.0     | 3.2  |      |
|         | 40 34 33 | 40 34     | 15.6     |      |      |
| 120     | 60.6345  | 15 41 12  | -59 50.5 | 6.4  | 8.7  |
| 4734    | 39 17    | 26.8      | 7.5      | 15.8 |      |
|         | 115      | 23.7      | 13.9     | 24.5 |      |
|         | 40 19    | 59 42.1   | 62       | 8.4  |      |
|         | 40 119   | 42.1      | 63       | 15.3 |      |
|         | 15 40 19 | -59 42.1  |          |      |      |
| 77      | 59.6311  | 15 39 17  | -59 26.8 | 7.6  | 3.3  |
| 6204    | 35 27    | 02.2      | 21.0     | 21.2 |      |
|         | 3-50     | 24.6      | 28.6     | 24.5 |      |
|         | 15 38 16 | 23.5      | 61       |      |      |
|         | 38 16    | 23.4      | 169      |      |      |
|         | 15 38 16 | -59 23.4  |          |      |      |
| 87      | 47.1420  | 15 32 32  | 40 30.4  | 34.1 | 34.5 |
| 3313    | 20.23    | 40.0      | 32.2     | 31.2 |      |
|         | 2 33     | 24.2      | 18.3     | 23.0 |      |
|         | 30 30 30 | 25.0      | 34.1     |      |      |
|         | 30 30    | 34.1      | 34.1     |      |      |
|         | 15 30 30 | -34.1     | 34.1     |      |      |
|         | 15 30 30 | -34.1     | 34.1     |      |      |

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64 A1337  
 [[6 columned table]]  
 |---|---|---|---|---|

|     |           |          |          |      |      |
|-----|-----------|----------|----------|------|------|
| 43  | 59.6394   | 15 44 24 | -59 480  | 12.4 | 7.8  |
| 43  | 6450      | 48 23    | 24.5     | 18.8 | 14.3 |
|     | 3 59      | 23.5     | 31.2?    | 22.1 |      |
|     | 15 45 59  | 39.7     | 95       | 8.3  |      |
|     | 45 59     | 39.7     | 144      | 15.2 |      |
|     | 15 45 59  | -59 30.7 |          |      |      |
| 236 | same      |          | 18.7     | 11.1 |      |
| 236 |           |          | 12.5     | 11.0 |      |
|     |           | 31.2     |          |      |      |
|     | 15 46 47  | 59 36.2  | 143      | 11.8 |      |
|     | 46 47     | 36.2     | 96       | 11.7 |      |
|     | 15 46 47  | -59 36.2 |          |      |      |
| 44  | same      |          | 18.9     | 13.1 |      |
| 44  |           |          | 12.3     | 9.0  |      |
|     |           | 31.2     |          |      |      |
|     | 15 46 48+ | 34.1     | 144+     | 13.9 |      |
|     | 46 49     | 59 34.1  | 94       | 9.6  |      |
|     | 15 46 49  | -59 34.1 |          |      |      |
| 296 | 58.6563   | 15 52 25 | -59 04.3 | 10.2 | 16.0 |
|     | 6510      | 49 40    | 58 38.8  | 9.4  | 11.1 |
|     | 2 45      | 25.5     | 19.6     | 27.1 |      |
|     | 15 50 59  | 58 49.3  | 86       | 15.0 |      |
|     | 50 59     | 49.3     | 79       | 10.5 |      |
|     | 15 50 59  | -58 49.3 |          |      |      |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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65

A13337

[[6 columns]]

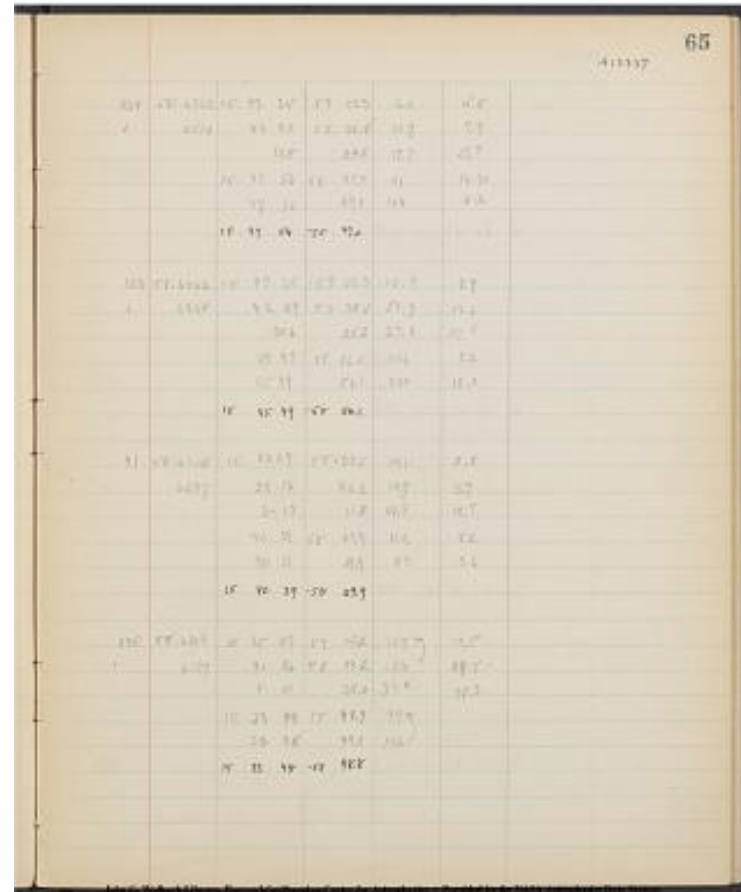
---|---|---|---|

|     |          |          |         |       |      |
|-----|----------|----------|---------|-------|------|
| 234 | 58.6462  | 15 47 35 | 59 03.3 | 3.0   | 15.8 |
|     | 6510     | 49 40    | 58 38.8 | 14.7  | 7.9  |
|     |          | 125      | 34.5    | 17.7  | 23.7 |
|     | 15 47 56 | 58 47.6  | 21      | 16.34 |      |
|     | 47 56    | 47.0     | 104     | 8.2   |      |
|     | 15 47 56 | -58 47.0 |         |       |      |
|     | 15 45 49 | -58 56.1 |         |       |      |

|    |          |          |         |      |      |
|----|----------|----------|---------|------|------|
| 41 | 58.6368  | 15 42 29 | 58 38.1 | 14.1 | 8.8  |
|    | 6297     | 39 16    | 26.3    | 10.7 | 3.9  |
|    |          | 3 - 13   | 11.8    | 24.8 | 12.7 |
|    | 40 39    | 58 29.9  | 11.0    | 8.2  |      |
|    | 40 39    | 29.9     | 83      | 3.6  |      |
|    | 15 40 39 | -58 29.9 |         |      |      |

|     |          |          |         |      |      |
|-----|----------|----------|---------|------|------|
| 295 | 58.6204  | 15 35 27 | 59 02.2 | 12.8 | 13.5 |
|     | 6129     | 31 26    | 58 24.2 | 18.4 | 24.8 |
|     |          | 4. 01    | 38.0    | 31.2 | 38.3 |
|     | 15 33 48 | 58 48.7  | 99      |      |      |
|     | 33 48    | 49.1     | 14.2    |      |      |
|     | 15 33 48 | -58 48.8 |         |      |      |

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 Extracted Dec-02-2022 08:46:28

66  
A13337  
290|58.6044|15 26 19|-56 08.4|4.3|4.7|  
|57.7001| 27 44| 00.6|6.8|3.4|  
| | 85| 7.8|11.1|8.1|  
| | 15 26 52|58 03.7|33| |  
| | 26 52| 4.0| 52| |  
| | 15 26 52|58 038| | |  
  
206|58.6129|15 31 26|58 24.2|9.5|11.7|  
|6156| 33 32| 12.2|7.0|6|  
| | 126| 12.0|16.5|12.3|  
| | 15 32 39| 12.5|73| |  
| | 32 39| 12.8|53| |  
| | 15 32 39|-58 12.6| | |  
  
123|58.6156| 33 32|58 12.2|2.1|10.9|  
|57.7175| 36 11|57 50.0|19.4|11.1|  
| | 2 - 39| 22.2|21.5|22.0|  
| | 33 47|58 01.3|15.6|  
| | 15 33 47| 1.1|15.6| |  
| | 15 33 47|58 01.2| | |  
  
138|same| | |12.7|8.2|  
| | | |8.9|18.8|  
| | | |21.6|22.0|  
| | 15 35 05|58 04.0|97| |  
| | 35 05| 3.8|93| |  
| | 15 35 05|-58 03.9| | |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28

67  
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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28

68  
A1954

[[6 Column Table]]

| | | | | |

|246|64.3432|16 08 47|-64 43.9|14.4|7.4|  
|[[checkmark]]| 3411| 03 48| 17.3|19.4|17.6|  
| | 4 59| 26.6|33.8|25.0|  
| | 06 40+| 36.0|128-|7.9|  
| | 16 06 40| 361|172|7.9|  
| | 16 06 40|-64 36.0| |

|98|64.3432|16 08 47|-64 43.9|5.7|1.3|  
|3464|13 55|16.0|26.3|27.0|  
| | 5 08|27.9|32.3|28.3|  
| | 09 42|42.6|55| |  
| | 16 09 42|-64 43.0|253| |  
| | 16 09 42|-64 42.8| | |

|34|same| | |20.3|17.3|  
| | | |11.5|11.0|  
| | | |31.8|28.3|  
| | 16 12 04|26.6|197| |  
| | 12 04|27.0|111| |  
| | 16 12 04|-64 26.8| | |

|205|64.3484|16 17 38|-64 12.5|2.8|8.0|  
|[[checkmark]]|63.3930|19 28|63 52.6|9.1|10.2|  
| | 1 50|19.9|11.9|18.2|  
| | 18 04|03.8|26|8.7|  
| | 18 04|64 03.8|84|11.2|  
| | 16 18 04|-64 03.8| | |

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69

A1954

[[6 column table]]

|---|---|---|---|---|

|          |          |          |          |      |     |
|----------|----------|----------|----------|------|-----|
| 71       | 64.3505  | 16 22 11 | -64 32.7 | 11.0 | 9.7 |
| 3484     | 17 34    | 12.5     | 19.4     | 10.6 |     |
| 4 37     | 64 20.2  | 30.4     | 20.3     |      |     |
| 20 31    | 23.0     | 100+     |          |      |     |
| 20 31    | 23.1     | 177      |          |      |     |
| 16 20 31 | -64 23.0 |          |          |      |     |

|          |          |          |         |      |     |
|----------|----------|----------|---------|------|-----|
| 272      | 64.3499  | 16 21 01 | 64 56.8 | 3.4  | 8.0 |
| 3505     | 22 11    | 32.7     | 4.0     | 16.1 |     |
| 70       | 24.1     | 7.4      | 24.1    |      |     |
| 16 21 33 | 48.8     | 32       |         |      |     |
| 21 33    | 48.8     | 38       |         |      |     |
| 16 21 33 | -64 48.8 |          |         |      |     |

|          |          |          |                     |                      |      |
|----------|----------|----------|---------------------|----------------------|------|
| 285      | 64.3527  | 16 27 23 | -64 54.2            | 3.8                  | 1.8  |
| X 3541   | 31 10    | 31.5     | [[crossed out]] 2.1 | [[crossed out]] 21.0 | 20.2 |
| 3 47     | 22.7     | 24.8     | 22.0                |                      |      |
| 27 58    | 52.4     | 35       | 1.8                 |                      |      |
| 16 27 58 | -64 52.4 |          |                     |                      |      |

|          |          |          |          |       |      |
|----------|----------|----------|----------|-------|------|
| 32       | 64.3541  | 16 31 10 | -64 31.5 | 73    | 12.9 |
| 63.3973  | 26 46    | 64 00.6  | 20.4     | 19.3- |      |
| 4 - 24   | 30.9     | 27.7     | 32.2     |       |      |
| 30 00    | 19.1     | 70       | 12.3+1   |       |      |
| 16 30 00 | 19.1     | 19.4     | 18.5     |       |      |
| 16 30 00 | -64 19.1 |          |          |       |      |

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70

A1954

[[7 column table]]

|    |         |          |          |      |      |  |
|----|---------|----------|----------|------|------|--|
| 70 | 64.3541 | 16 31 10 | -64 31.5 | 21.4 | 37.8 |  |
| 63 | 3973    | 26 46    | 64 00.6  | 6.2  | 4.3  |  |
| 4  | -24     | 30.9     | 27.6     | 32.1 |      |  |
| 27 | 47      | 04.7     | 204 -1   | 26.8 |      |  |
| 27 | 45      | 64 4.7   | 59       | 4.1  |      |  |
| 16 | 27 46   | -64 04.7 |          |      |      |  |

|      |         |                                        |         |       |                                        |  |
|------|---------|----------------------------------------|---------|-------|----------------------------------------|--|
| 97   | 64.3527 | 16 27 23                               | 64 54.2 | 5.4   | 21.9                                   |  |
| 3511 | 23 35   | 04.9                                   | 18.7    | 28.3  |                                        |  |
| 3    | 48      | 49.3                                   | 24.1    | 50.2  |                                        |  |
| 26   | 32      | 32.7                                   | 51      | 21.5  |                                        |  |
| 26   | 32      | 64 32.7                                | 177     | 27.8  |                                        |  |
| 16   | 26      | [[crossed out]] 25 [[/crossed out]] 32 |         | -64 3 | [[crossed out]] 3 [[/crossed out]] 2.7 |  |

|    |      |                                        |       |      |                                            |  |
|----|------|----------------------------------------|-------|------|--------------------------------------------|--|
| 33 | same |                                        | 17.9- | 37.9 |                                            |  |
|    |      | 6.3                                    | 12.3  |      |                                            |  |
|    |      | 24.2-                                  | 50.2  |      |                                            |  |
| 24 | 34   | 16.9                                   | 169   | 37.3 |                                            |  |
| 24 | 34   | 64 16.9                                | 59    | 12.0 |                                            |  |
| 16 | 24   | 3 [[crossed out]] 2 [[/crossed out]] 4 |       | -64  | [[crossed out]] 17.5 [[/crossed out]] 16.9 |  |

|     |      |                                        |         |         |                                            |  |
|-----|------|----------------------------------------|---------|---------|--------------------------------------------|--|
| 244 | same |                                        | 18.3    | 32.9    |                                            |  |
|     |      | 5.8                                    | 17.3    |         |                                            |  |
|     |      | 24.1                                   | 50.2    | wrong x |                                            |  |
| 24  | 30   | 21.9                                   | 173     | 32.3    |                                            |  |
| 16  | 24   | 80                                     | 64 21.9 | 55      | 17.0                                       |  |
| 16  | 24   | [[crossed out]] 28 [[/crossed out]] 30 |         | -64     | [[crossed out]] 22.5 [[/crossed out]] 21.9 |  |

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71

A1954

[[6 columned table]]

|---|---|---|---|---|

|               |          |          |          |      |      |
|---------------|----------|----------|----------|------|------|
| 288           | 64.3484  | 16 17 34 | -64 12.5 | 13.8 | 8.9  |
| [[checkmark]] | 63 3897  | 12 57    | -63 27.4 | 17.7 | 36.0 |
|               | 4.37     | 45.1     | 31.5     | 44.9 |      |
|               | 15 32    | 3.6      | 122      |      |      |
|               | 15 32    | 64 35    | 155      |      |      |
|               | 16 15 32 | -64 03.5 |          |      |      |
| 221           | same     |          | 20H      | 28.8 |      |
| [[checkmark]] |          |          | 11.0     | 16.0 |      |
|               | 91.4     |          |          |      |      |
|               | 16 19 34 | 63 43.7  | 18.0     |      |      |
|               | 14 34    | 43.4     | 97       |      |      |
|               | 16 14 34 | -63 43.6 |          |      |      |

|               |          |          |          |      |      |
|---------------|----------|----------|----------|------|------|
| 177           | 63.3800  | 16 05 39 | -63 31.7 | 7.9  | 5.3  |
| [[checkmark]] | 3835     | 03 05    | 15.3     | 10.8 | 10.3 |
|               | 2 34     | 16.4     | 18.7     | 15.6 |      |
|               | 04 34    | 26.1     | 6.5      | 5.6  |      |
|               | 04 34    | 63 26.1  | 8.9      | 10.8 |      |
|               | 16 04 34 | -63 26.1 |          |      |      |

|               |          |          |      |      |  |
|---------------|----------|----------|------|------|--|
| 180           | same     |          | 15.8 | 12.8 |  |
| [[checkmark]] |          |          | 3.0  | 2.8  |  |
|               | 18.8     | 15.6     |      |      |  |
|               | 16 03 30 | 18.2     | 129  | 13.5 |  |
|               | 03 30    | 63 18.2  | 25   | 2.9  |  |
|               | 16 03 30 | -63 18.2 |      |      |  |

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72  
 A1954  
 195|16. 5231|16 05 41|-62 53.0|11.6|6.2|  
 5262| 09 02| 41.1|10.7|7.2|  
 3 21| 11.9|22.3|13.4|  
 07 25| 47.5|104|5.5|  
 07 25|62 47.5|97|6.4|  
 16 07 25|-62 47.5||  
 |||||  
 219|63. 3897|16 12 57|-63 27.4|4.6|22.3|  
 [[checkmark]]|62 5262| 09 02|62 41.1|24.0|23.5|  
 3 55| 46.3|28.6|45.8|  
 12 19|63 04.8|38|22.6|  
 12 19| 04.9|197|23.8|  
 16 12 19|-63 04.8||  
 |||||  
 187|63. 3947|16 22 00|-63 33.6|37.4|23.4|  
 62.5309| 15 02|62 51.6|9.6|20.3|  
 6 58| 42.0|47.0|43.7|  
 16 29|63 11.2|331|22.4|  
 16 27|63 11.2|8.5|19.6|  
 16 16 28|-63 11.2||  
 |||||  
 319|same|||31.8|30.3|  
 15.2|13.4|  
 470|437|  
 17 17|63 04.5|28.3|29.1|  
 16 17 17|-63 04.5||

| ARMY          |          |          |          |      |      |  |  |  |  |
|---------------|----------|----------|----------|------|------|--|--|--|--|
| 195           | 16. 5231 | 16 05 41 | -62 53.0 | 11.6 | 6.2  |  |  |  |  |
| 5262          | 09 02    | 41.1     | 10.7     | 7.2  |      |  |  |  |  |
| 3 21          | 11.9     | 22.3     | 13.4     |      |      |  |  |  |  |
| 07 25         | 47.5     | 104      | 5.5      |      |      |  |  |  |  |
| 07 25         | 62 47.5  | 97       | 6.4      |      |      |  |  |  |  |
| 16 07 25      | -62 47.5 |          |          |      |      |  |  |  |  |
|               |          |          |          |      |      |  |  |  |  |
| 219           | 63. 3897 | 16 12 57 | -63 27.4 | 4.6  | 22.3 |  |  |  |  |
| [[checkmark]] | 62 5262  | 09 02    | 62 41.1  | 24.0 | 23.5 |  |  |  |  |
| 3 55          | 46.3     | 28.6     | 45.8     |      |      |  |  |  |  |
| 12 19         | 63 04.8  | 38       | 22.6     |      |      |  |  |  |  |
| 12 19         | 04.9     | 197      | 23.8     |      |      |  |  |  |  |
| 16 12 19      | -63 04.8 |          |          |      |      |  |  |  |  |
|               |          |          |          |      |      |  |  |  |  |
| 187           | 63. 3947 | 16 22 00 | -63 33.6 | 37.4 | 23.4 |  |  |  |  |
| 62.5309       | 15 02    | 62 51.6  | 9.6      | 20.3 |      |  |  |  |  |
| 6 58          | 42.0     | 47.0     | 43.7     |      |      |  |  |  |  |
| 16 29         | 63 11.2  | 331      | 22.4     |      |      |  |  |  |  |
| 16 27         | 63 11.2  | 8.5      | 19.6     |      |      |  |  |  |  |
| 16 16 28      | -63 11.2 |          |          |      |      |  |  |  |  |
|               |          |          |          |      |      |  |  |  |  |
| 319           | same     |          | 31.8     | 30.3 |      |  |  |  |  |
| 15.2          | 13.4     |          |          |      |      |  |  |  |  |
| 470           | 437      |          |          |      |      |  |  |  |  |
| 17 17         | 63 04.5  | 28.3     | 29.1     |      |      |  |  |  |  |
| 16 17 17      | -63 04.5 |          |          |      |      |  |  |  |  |

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 30, MWF 193 #IV  
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73

A1954

|     |      |      |      |
|-----|------|------|------|
| 174 | same | 14.0 | 10.9 |
|-----|------|------|------|

|[[checkmark]]||33.0|32.9|

||||1||

|    |    |    |    |     |     |      |
|----|----|----|----|-----|-----|------|
| 16 | 19 | 56 | 63 | 232 | 124 | 10.4 |
|----|----|----|----|-----|-----|------|

|    |    |      |     |      |
|----|----|------|-----|------|
| 19 | 56 | 23.2 | 294 | 31.6 |
| 10 | 10 | 50   | 33  | 33   |

|||16 19 56|-63 23.2|||

130016

|       |         |    |    |    |     |     |     |     |
|-------|---------|----|----|----|-----|-----|-----|-----|
| 300   | 62.5534 | 16 | 17 | 44 | -62 | 443 | 2.3 | 6.0 |
| 15235 | 18.38   | 22 | 1  | 2  | 3   | 6   | 6   |     |

|      |       |      |      |     |
|------|-------|------|------|-----|
| 55.5 | 18.28 | 52.1 | 2.3  | 0.0 |
| 44   | 12.4  | 46   | 12.6 |     |

|    |      |     |      |
|----|------|-----|------|
| 44 | 12.4 | 4.0 | 12.0 |
| 18 | 06   | 38  | 5    |
| 22 |      |     |      |

||| 16 18 06|-62 38 6|||

||||| 10 10 00| 02 00.0|||

|     |         |          |         |      |     |
|-----|---------|----------|---------|------|-----|
| 178 | 62.5380 | 16 25 58 | 62 54.4 | 12.6 | 6.7 |
|-----|---------|----------|---------|------|-----|

|      |       |      |      |      |
|------|-------|------|------|------|
| 5343 | 19 34 | 06.3 | 32.0 | 42.3 |
|------|-------|------|------|------|

||| 6 24|48.1|44.6|49.0

|    |    |      |     |     |
|----|----|------|-----|-----|
| 24 | 10 | 47.8 | 108 | 6.6 |
|----|----|------|-----|-----|

|  |    |    |      |     |      |
|--|----|----|------|-----|------|
|  | 24 | 10 | 47.8 | 276 | 41.5 |
|--|----|----|------|-----|------|

$$\begin{vmatrix} 16 & 24 & 10 \\ -62 & 47.8 \end{vmatrix}$$

1404

|     |      |      |      |
|-----|------|------|------|
| 179 | same | 21.5 | 34.7 |
| 180 | 1.1  | 1.1  | 1.1  |

|      |      |
|------|------|
| 23.1 | 14.1 |
| 44.6 | 48.8 |

|  |       |      |
|--|-------|------|
|  | 44.0  | 46.0 |
|  | 33.53 | 30   |

|     |    |      |     |      |
|-----|----|------|-----|------|
| 22  | 33 | 20.1 | 183 | 34.3 |
| 16  | 22 | 53   | 62  | 20.1 |
| 199 | 1  |      |     |      |

|    |    |    |     |      |     |      |
|----|----|----|-----|------|-----|------|
| 10 | 22 | 55 | 02  | 20.1 | 199 | 15.0 |
| 16 | 22 | 53 | -62 | 20.1 |     |      |

||| 10 22 00 | 02 20.1 |||

41

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74  
A1954

[[6 column table]]

|99|63.3968|16 25 50|+63 34.5|7.3|4.7|  
|[[symbol-checkmark]]|3979| 28 32| 26.9|0.8|2.3|  
| | | 2 - 42| 7.6| 18.1|7.0|  
| | | 26 55|29.4|65|5.1|  
| | | 26 55|29.4|97|2.5|  
| | | 16 26 66|-63 29.4| | |  
|100|63.3998|16 33 55|-63 26.4|6.1|6.2|  
|[[symbol-checkmark]]|3987| 30 47| 15.9|14.2 |[[symbol-arrow pointing  
to 6.1 in column above]]|5.2|  
| | | 3 08| 10.5| 11.4|  
| | | 31 43+| 20.7|5.7|5.7|  
| | | 31 44|63 20.7|13.2-|[[symbol-arrow pointing to 5.7 in column  
above]]|4.8|  
| | | 31 44| | | |  
| | | 16 31 44|-63 20.7| | |  
|250|63.4008|16 37 37|-63 20.7|4.4|17.1|  
|[[symbol-checkmark]]|62.5428| 35 23|62 42.0|8.9|12.2|  
| | | 2 - 14| 28.2|3.3|29.3|  
| | | 36 53| 62 53.7|44|16.5|  
| | | 36 53| 538|90|11.8-|  
| | | 6 36 53|-62 53.8| | |  
|152|62.5438|16 38 25|62 223|8.2|14.0|  
|[[symbol-checkmark]]|61.5771| 34 42|61 44.2|15.4|25.8|  
| | | 3 - 43| 38.1|23.6|39.8|  
| | | 37 08|62 08.9|7.7|13.4|  
| | | 37 08| 08.9|14.6|24.7|  
| | | 16 37 08|-62 08.9| | |

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```

[61|61.5771|16 34 42|-61 44.2|-61 44.2|1.0 [[Arrow connecting the entry
below, 7.8, to this entry]]|21.3|
|[[checkmark]]|?|5774|35 45|19.6|7.8|4.0|
|||63|24.6|8.8|25.3|
||35 38|23.7|7.2|[[Arrow connecting this entry to the one below,
56]]|20.8|-|
|||35 38|23.5|56|3.9|
||16 35 38|-61 23.5||
|||
|||157|61.5758|16 32 11|-62 00.1|8.1|7.5|
|[[checkmark]]|5771|34 42|61 44.2|10.3|7.6|

```

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Extracted Dec-02-2022 08:46:28

76  
A1954

[[6 column table]]

| 30 | 62.5343 | 16 19 34 | -62 06.3 | 6.5 | 8.8 |  
| [[symbol]] | 61.5699 | 20 52 | 61 47.8 | 2.9 | 9.7 |  
|||| 1 18 | 18.5 | 9.4 | 18.5 |  
|||| 20 28 | 61 57.5 | 54 |||  
|||| 28 | 57.5 | 24 |||  
|||| 16 20 28 | -61 57.5 |||||

| 301 | 61.5699 | 16 20 52 | -61 47.8 | 9.5 | 5.6 |  
| [[symbol]] | 5672 | 17 09 | 35.6 | 17.3 | 6.4 |  
|||| 3 43 | 12.2 | 26.8 | 12.0 |  
|||| 19 33 | 61 42.2 | 79 |||  
|||| 19 33 | 42.0 | 144 |||  
|||| 16 19 33 | -61 42.1 |||||

| 24 | 61.5672 | 16 17 09 | -61 35.6 | 6.6 | 5.0 |  
| [[symbol]] | 5690 | 19 52 | 15.8 | 12.6 | 15.2 |  
|||| 2 43 | 19.8 | 19.2 | 20.2 |  
|||| 18 05 | 61 30.6 | 56 |||  
|||| 18 05 | 31.0 | 107 |||  
|||| 16 18 05 | -61 30.8 |||||

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Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

77

A1954  
 238|61.5709|16 23 18|61 39.5|10.2|10.6|  
 [[ checkmark ]]5690|19 52|15.8|14.5|13.3|  
 ||3 26|23.7|24.7|23.9|  
 ||21 53|28.9|85||  
 ||21 53|29.1|121||  
 ||16 21 53|-61 29.0||  
 |||||  
 60|same|||3.1|6.3|  
 [[ checkmark ]]|21.7|17.6|  
 ||24.8|23.9|  
 ||16 22 52|-61 33.3||  
 |||||  
 302|same|||3.9|13.5|  
 [[ checkmark ]]|21.0|10.2 +|  
 ||24.9|23.7|  
 ||22 46|26.0|32||  
 ||22 46| 61 26.0|174||  
 ||16 22 46|-61 26.0||  
 |||||  
 316|61.5748|16 28 46|-61 22.7|21.2|12.6|  
 [[ checkmark ]]60.6569|25 54|02.6|8.8|8.2|  
 ||2 -52|20.1|20.0|20.8|  
 ||27 10|10.5|96|12.2|  
 ||16 27 10|-61 10.5||

| Star    | RA          | Dec        | Mag  | Parallax | Proper Motion | Radial Velocity |
|---------|-------------|------------|------|----------|---------------|-----------------|
| 238     | 16h 23m 18s | +61° 39.5' | 10.2 | 10.6     |               |                 |
| 5690    | 19h 52m     | +15.8°     | 14.5 | 13.3     |               |                 |
| 3       | 26h         | +23.7°     | 24.7 | 23.9     |               |                 |
| 21      | 53h         | +28.9°     | 85   |          |               |                 |
| 21      | 53h         | +29.1°     | 121  |          |               |                 |
| 16      | 21h 53m     | -61° 29.0' |      |          |               |                 |
| 60      | same        | 3.1        | 6.3  |          |               |                 |
| 21.7    | 17.6        |            |      |          |               |                 |
| 24.8    | 23.9        |            |      |          |               |                 |
| 16      | 22h 52m     | -61° 33.3' |      |          |               |                 |
| 302     | same        | 3.9        | 13.5 |          |               |                 |
| 21.0    | 10.2 +      |            |      |          |               |                 |
| 24.9    | 23.7        |            |      |          |               |                 |
| 22      | 46h         | +26.0°     | 32   |          |               |                 |
| 22      | 46h         | +61° 26.0' | 174  |          |               |                 |
| 16      | 22h 46m     | -61° 26.0' |      |          |               |                 |
| 316     | 16h 28m 46s | -61° 22.7' | 21.2 | 12.6     |               |                 |
| 60.6569 | 25h 54m     | +02.6°     | 8.8  | 8.2      |               |                 |
| 2       | -52h        | +20.1°     | 20.0 | 20.8     |               |                 |
| 27      | 10h         | +10.5°     | 96   | 12.2     |               |                 |
| 16      | 27h 10m     | -61° 10.5' |      |          |               |                 |

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 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 08:46:28

78

A1954

[[6 columned table]]

284|61.5709|16 23 18|61 39.5|11.5|13.3|  
 [[symbol-checkmark]]|60.6569| 25 54|-61 02.6|7.9|23.6|  
 2 36| 36.9|19.4|36.9|  
 24 50|26.2|92|  
 24 50|26.2|64|  
 16 24 50|-61 26.2| | |  
 | | | | | |  
 317| same| | |8.3| 20.3|  
 [[symbol-checkmark]]| | | 10.9| 16.6|  
 | | | | | 19.2|36.9|  
 24 25| 61 19.2| 67| |  
 16 24 25|-61 19.2|.|.|  
 | | | | | |  
 172| 61.5693 [strikeout] 0?|16 19 52|-61 15.8|4.9|18.3|  
 [[symbol-checkmark]]|60.6555| 23 37|-60 39.9|22.6|17.9|  
 3.45| 35.9| 27.5| 36.2|  
 20 32|60 57.5|40| |  
 20 32| 578|185| | |  
 16 20 32|-60 57.6| | |  
 23| same| | |18.2| 6.9| |  
 [[symbol-checkmark]]| | | 9.3|29.4|  
 22 21|61 08.9|27.5|36.3|  
 22 21| 095|149| |  
 16 22 21|-61 09.1|76|

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 [[symbol - dot]] Provided by the NASA Astrophysics Data System

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 Extracted Dec-02-2022 08:46:28



79

A1954

[[6 column table]]

$$|315|_{\text{same}}||23.9|21.2+|$$

[[{"checkmark": true, "id": 1, "name": "checkmark", "version": "3.6", "year": "15.0"}]]

|27.5|36.2|

|||23 08|60 54.6|196||

16 23 08|54.9|29|

16 23 08|-60 54.8|

||| |||

|    |         |          |          |     |     |
|----|---------|----------|----------|-----|-----|
| 56 | 60.6525 | 16 18 03 | -60 24.4 | 6.2 | 3.6 |
|----|---------|----------|----------|-----|-----|

[[ checkmark ]]6511|16 03|16.4|8.9|4.3|

|                   |
|-------------------|
| 2 00 8.0 15.1 7.9 |
|-------------------|

17 14 20.8 49

|    |    |      |    |
|----|----|------|----|
| 17 | 14 | 20.7 | 71 |
|----|----|------|----|

|||16 17' 14|-60 20.8|||

||| |||

|223|60.6493|16 10 59|-60 34.3|6.6|9.3|

|                  |      |    |    |      |     |     |
|------------------|------|----|----|------|-----|-----|
| [[[ checkmark ]] | 6498 | 12 | 28 | 20.0 | 3.7 | 5.2 |
|------------------|------|----|----|------|-----|-----|

|   |    |      |      |      |
|---|----|------|------|------|
| 1 | 29 | 14.3 | 10.3 | 14.5 |
|---|----|------|------|------|

|    |    |      |    |
|----|----|------|----|
| 11 | 56 | 25.0 | 57 |
|----|----|------|----|

|    |    |      |    |
|----|----|------|----|
| 11 | 56 | 25.2 | 32 |
|----|----|------|----|

|||16 11 56|-60 25.1|||

1111

|     |         |          |          |     |      |
|-----|---------|----------|----------|-----|------|
| 224 | 61.5657 | 16 14 08 | -61 18.5 | 6.8 | 16.8 |
|-----|---------|----------|----------|-----|------|

1160 6501112 421-60 54 015 517 61

|    |    |   |    |   |    |   |
|----|----|---|----|---|----|---|
| 86 | 24 | 5 | 12 | 3 | 24 | 4 |
|----|----|---|----|---|----|---|

13 201-60 01 7148

13 20 01 6 38

||| 16 13 20|-60 01 6|||

79

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80  
A1954  
[[six columned table]]  
112|61.5634|16 11 05|-61 07.1|6.9|7.1|  
[[ checkmark ]]60.6501|12 42|-60 54.0|4.6|6.5|  
11 37|13.1|11.5|13.6|  
12 03|61 00.0|58||  
12 03|00.5|39||  
16 12 03|-61 00.2||  
|||||  
113|61.5634|16 11 05|-61 07.1|6.1|14.8|  
[[ checkmark ]]60.6485|08 13|-60 38.1|16.2|13.4|  
2 52|29.0|22.3|28.2|  
10 18|51.9|47|15.2|  
16 10 18|-60 51.9||  
|||||  
164|61.5619|16 07 41|-61 28.3|18.3|22.1|  
[[ checkmark ]]60.5601|12 42|-60 54.0|16.8|14.1|  
5 01|34.3|35.1|36.2|  
10 18|61 07.4|15.7|20.9|  
10 18|7.3|144.1|13.3|  
16 10 18|-61 07.4|34.2|  
|||||  
26|61.5653|16 13 30|-61 51.5|4.2|19.6|  
[[ checkmark ]]5657|14 08|18.5|0.3|13.8|  
38|33.0|4.5|33.4|  
14 05|31.9|33.5 35||  
14 05|32.3|2.59 3||  
16 14 05|-61 32.0||

80

A1954

|                 |          |          |          |      |      |
|-----------------|----------|----------|----------|------|------|
| 112             | 61.5634  | 16 11 05 | -61 07.1 | 6.9  | 7.1  |
| [[ checkmark ]] | 60.6501  | 12 42    | -60 54.0 | 4.6  | 6.5  |
| 11 37           | 13.1     | 11.5     | 13.6     |      |      |
| 12 03           | 61 00.0  | 58       |          |      |      |
| 12 03           | 00.5     | 39       |          |      |      |
| 16 12 03        | -61 00.2 |          |          |      |      |
|                 |          |          |          |      |      |
| 113             | 61.5634  | 16 11 05 | -61 07.1 | 6.1  | 14.8 |
| [[ checkmark ]] | 60.6485  | 08 13    | -60 38.1 | 16.2 | 13.4 |
| 2 52            | 29.0     | 22.3     | 28.2     |      |      |
| 10 18           | 51.9     | 47       | 15.2     |      |      |
| 16 10 18        | -60 51.9 |          |          |      |      |
|                 |          |          |          |      |      |
| 164             | 61.5619  | 16 07 41 | -61 28.3 | 18.3 | 22.1 |
| [[ checkmark ]] | 60.5601  | 12 42    | -60 54.0 | 16.8 | 14.1 |
| 5 01            | 34.3     | 35.1     | 36.2     |      |      |
| 10 18           | 61 07.4  | 15.7     | 20.9     |      |      |
| 10 18           | 7.3      | 144.1    | 13.3     |      |      |
| 16 10 18        | -61 07.4 | 34.2     |          |      |      |
|                 |          |          |          |      |      |
| 26              | 61.5653  | 16 13 30 | -61 51.5 | 4.2  | 19.6 |
| [[ checkmark ]] | 5657     | 14 08    | 18.5     | 0.3  | 13.8 |
| 38              | 33.0     | 4.5      | 33.4     |      |      |
| 14 05           | 31.9     | 33.5     | 35       |      |      |
| 14 05           | 32.3     | 2.59     | 3        |      |      |
| 16 14 05        | -61 32.0 |          |          |      |      |

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81

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[[6 columned table]]

299|62.5281|16 11 16|-62 094|19.3|18.8|

|61.5619|07|41|61 28.3|8.1|21.3|

||3- 35|41.1|27.4|40.1|

||08 44|50.1|152|19.3|

||08 45|61 50.1|64 -|21.8|

||16 08 45|-61 50.1||

|||||

94|62.5261|16 08 57|-62 18.8|6.2|8.2|

|5281|16 11 16|-62 09.4|7.5|2.0|

||2 - 19|09.4|15.7|10.2|

||09 52|11.2|55|7.6|

||09 52|11.2|84|1.8|

||16 09 52|-62 11.2||

|||||

129|same|16 11 16|-62 09.4|1.5|4.3|

|61.5653|13 30|61 51.5|13.9|14.3|

||2 - 14|17.9|15.4|18.6|

||11 29|62 05.3|13|4.1|

||11 29|62 05.3|121|13.8|

||16 11 29|-62 05.3||

|||||

102|same|||11.0|10.8|

|||4.3|7.8|

|||15.3|18.6|

||12 52|61 59.0|96|10.4|

||12 52|59.0|38|7.5|

||16 12 52|61 59.0||

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82

A195

[[6 columned table]]

| --- | --- | --- | --- | --- | --- |

|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 28 | 62.5261  | 16 08 57 | -62 18.8 | 14.3 | 6.3  |
|    | 61.5653  | 13 30    | -61 51.5 | 16.8 | 22.5 |
|    | 4 - 33   | 27.3     | 31.1     | 28.8 |      |
|    | 11 02    | 62 12.8  | 125      | 6.0  |      |
|    | 11 02    | 12.8     | 148      | 21.3 |      |
|    | 16 11 02 | -62 12.8 |          |      |      |

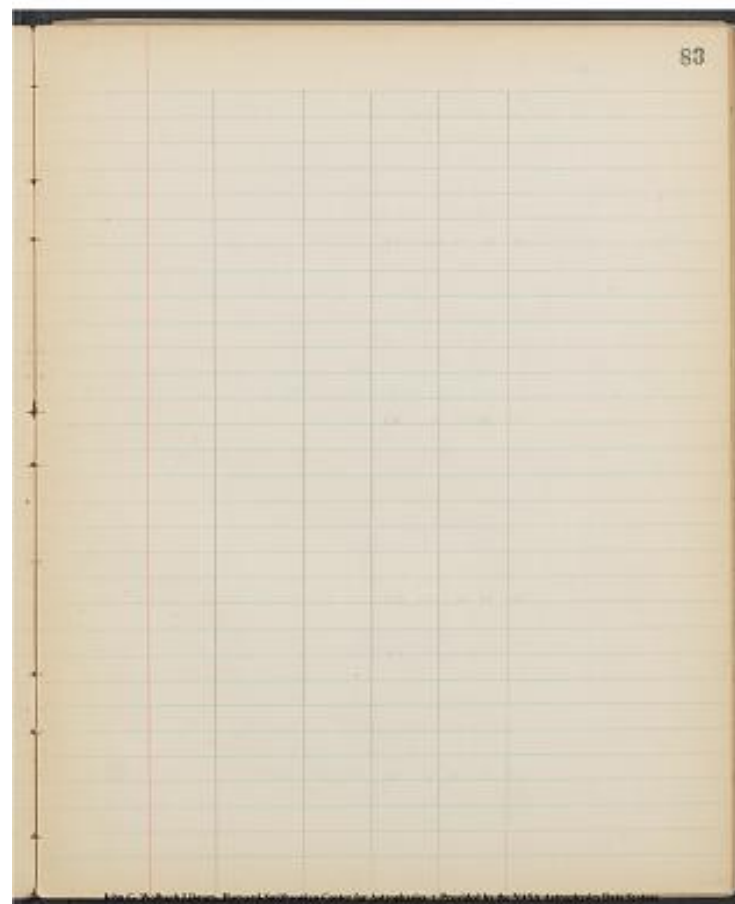
|    |          |          |      |      |  |
|----|----------|----------|------|------|--|
| 95 | same     |          | 23.5 | 8.0  |  |
|    |          | 7.6      | 20.8 |      |  |
|    |          | 31.1     | 28.8 |      |  |
|    | 12 23    | 62 11.2  | 206  | 7.6  |  |
|    | 12 23    | 11.2     | 67   | 19.7 |  |
|    | 16 12 23 | -62 11.2 |      |      |  |

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82

|    |          |          |          |      |      |
|----|----------|----------|----------|------|------|
| 28 | 62.5261  | 16 08 57 | -62 18.8 | 14.3 | 6.3  |
|    | 61.5653  | 13 30    | -61 51.5 | 16.8 | 22.5 |
|    | 4 - 33   | 27.3     | 31.1     | 28.8 |      |
|    | 11 02    | 62 12.8  | 125      | 6.0  |      |
|    | 11 02    | 12.8     | 148      | 21.3 |      |
|    | 16 11 02 | -62 12.8 |          |      |      |
| 95 | same     |          | 23.5     | 8.0  |      |
|    |          | 7.6      | 20.8     |      |      |
|    |          | 31.1     | 28.8     |      |      |
|    | 12 23    | 62 11.2  | 206      | 7.6  |      |
|    | 12 23    | 11.2     | 67       | 19.7 |      |
|    | 16 12 23 | -62 11.2 |          |      |      |

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30, MWF 193 #IV  
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84

A9581

[[6 column table]]

|196|63.3675|15 38 26 [[symbol-checkmark]]|-63 31.10 [[symbol-checkmark]]|10.4|14.4|  
|[[symbol-checkmark]]|3696|42 18[[symbol-checkmark]]|14.7[[symbol-checkmark]]|  
|[[symbol-checkmark]]|[[strikethrough]]14.1[[/strikethrough]]|14.4|4.0|  
|3 52|16.3|[[strikethrough]]24.5[[/strikethrough]]|24.8|18.4|  
|40 [[strikethrough]]05[[/strikethrough]]|3|18.2| [[strikethrough]]97| 12.8|  
|40 [[strikethrough]]05[[/strikethrough]]|3|18.2|[[strikethrough]]135| 3.5|  
|15 40 03|-63 18.2| 232|

|193|63.3717|15 45 43|-63 56.5|23.2|9.5[[arrow symbol]]|  
|[[symbol-checkmark]]|3696|42 18|14.7|2.7|31.0 [[arrow symbol]]|  
|3 25|41.8|25.9|40.5|  
|42 39|24.5|184|9.8 [[arrow symbol]]|  
|42 39|24.5|21|32.0[[arrow symbol]]|

|35|same|||11.8|24.3|  
|[[symbol-checkmark]]|||14.0|16.0|  
|||25.8|40.3|  
||44 09|31.3|94|25.2|  
||44 09|31.3|111|16.6|  
||15 44 09|-63 31.3|||

|175|63.3717|15 45 43|-63 56.5|9.9|14.7|  
|[[symbol-checkmark]]|3766|52 13|21.8|31.6|22.1|  
||6 30|34.4|41.5|36.8|  
||47 16|42.7|93|13.8|  
||47 16|42.7|297|20.9|  
||15 47 16|-63 42.7|390|34.7|

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85

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[[ 6 columned table]]

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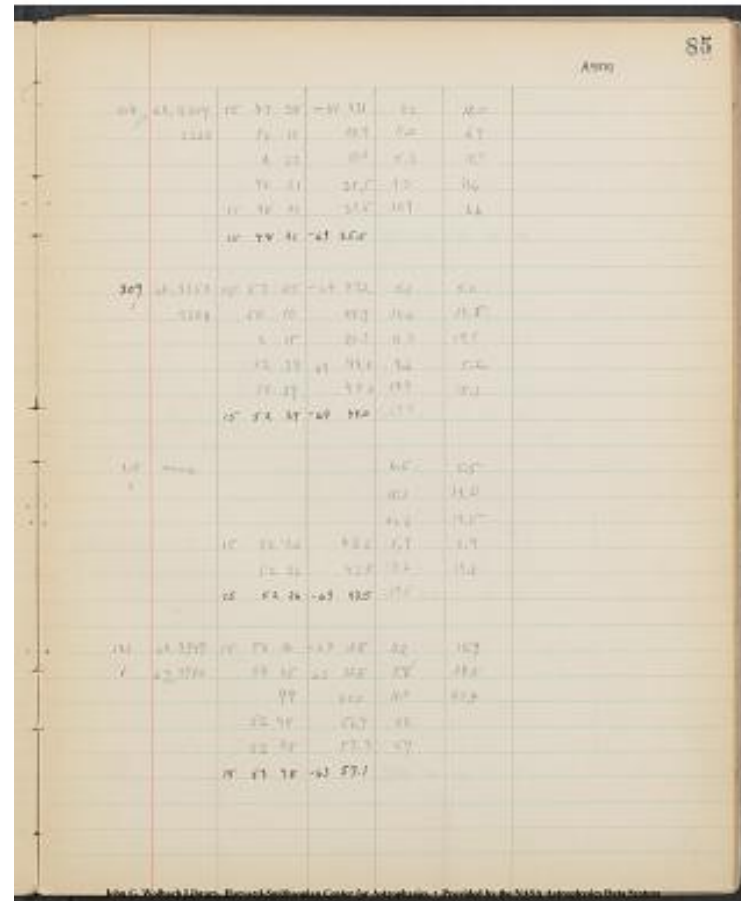
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|-----|---------|----------|----------|------|------|
| 204 | 64.3309 | 15 47 38 | -64 47.1 | 4.3  | 12.0 |
|     | 3324    | 50 10    | 28.9     | 11.0 | 6.9  |
|     |         | 2 32     | 182      | 15.3 | 18.9 |
|     |         | 48 21    | 35.5     | 43   | 11.6 |
|     |         | 15 48 21 | 35.5     | 109  | 66   |
|     |         | 15 48 21 | -64 35.5 |      |      |

|     |         |          |          |      |      |
|-----|---------|----------|----------|------|------|
| 309 | 64.3350 | 15 53 25 | -64 492  | 5.1  | 5.0  |
|     | 3324    | 50 10    | 28.9     | 16.6 | 14.5 |
|     |         | 3 15     | 20.3     | 21.7 | 19.5 |
|     |         | 52 39    | 64 44.0  | 4.6  | 5.2  |
|     |         | 52 39    | 44.0     | 149  | 15.1 |
|     |         | 15 52 39 | -64 44.0 | 195  |      |

|     |      |  |  |          |          |
|-----|------|--|--|----------|----------|
| 215 | same |  |  | 6.5      | 5.5      |
|     |      |  |  | 15.1     | 14.0     |
|     |      |  |  | 21.6     | 19.5     |
|     |      |  |  | 15 52 26 | 43.5     |
|     |      |  |  | 5.9      | 5.7      |
|     |      |  |  | 52 26    | 43.5     |
|     |      |  |  | 136      | 14.6     |
|     |      |  |  | 15 52 26 | -64 43.5 |
|     |      |  |  | 195      |          |

|     |               |          |          |         |      |
|-----|---------------|----------|----------|---------|------|
| 121 | 64.3347       | 15 53 06 | -64 12.8 | 4.2     | 15.9 |
|     | [[checkmark]] | 63.3780  | 54 45    | 63 32.8 | 5.8  |
|     |               | 99       | 40.0     | 10.0    | 40.4 |
|     |               | 53 48    | 56.9     | 42      |      |
|     |               | 53 48    | 57.3     | 57      |      |
|     |               | 15 53 48 | -63 57.1 |         |      |

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86  
A9581  
[[ 6 columned table]]  
---|---|---|---|---|---|  
37|63.3800|15 57 49|-64 04.2|10.9|14.7|  
[[checkmark]]|3780|54 45|-63 32.8|10.2|16.5|  
|| 3 04|31.4|21.1|31.2|  
||56 14|49.5|95||  
||56 14|49.3|89||  
||15 56 14|-63 49.4||  
||||  
69|63.3766|15 52 13|-63 21.8|4.7|12.2|  
[[checkmark]]|62.5120|53 58|62 50.9|6.5|19.0|  
||1 45|30.9|112|31.2|  
||15 52 57|09.6|44||  
||52 57|63 09.9|61||  
||15 52 57|-63 09.8||  
||||  
92|62.5179|15 57 29|-63 04.1|8.9|2.1|  
[[checkmark]]|5120|53 58|62 50.9|15.4|10.7|  
||3-31|13.2|24.3|12.8|  
||56 12|63 02.0|77||  
||56 12|1.6|134||  
||15 56 12|-63 01.8||  
||||  
242|64.3393|16 01 27|64 34.6|12.4|11.8|  
[[checkmark]]|3411|03 48|-64 17.3|3.1|5.7|  
||2 21|17.3|15.5|17.5|  
||03 20|22.8|113||  
||03 20|23.0|28||  
||16 03 20|-64 22.9||

86

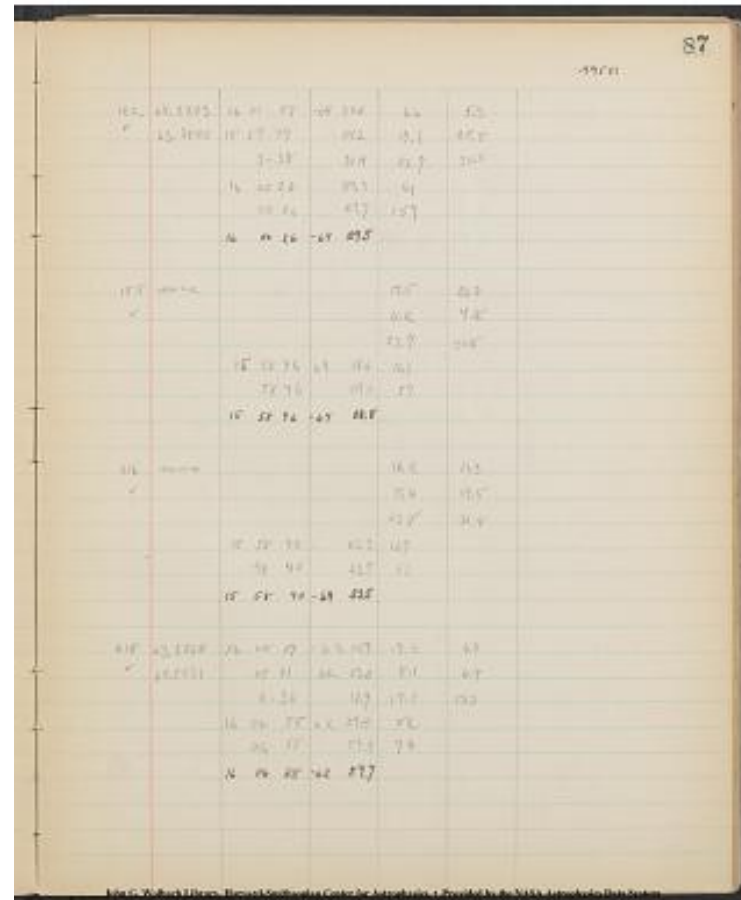
| A9581         |          |          |          |      |      |
|---------------|----------|----------|----------|------|------|
| 37            | 63.3800  | 15 57 49 | -64 04.2 | 10.9 | 14.7 |
| [[checkmark]] | 3780     | 54 45    | -63 32.8 | 10.2 | 16.5 |
|               | 3 04     | 31.4     | 21.1     | 31.2 |      |
|               | 56 14    | 49.5     | 95       |      |      |
|               | 56 14    | 49.3     | 89       |      |      |
|               | 15 56 14 | -63 49.4 |          |      |      |
|               |          |          |          |      |      |
| 69            | 63.3766  | 15 52 13 | -63 21.8 | 4.7  | 12.2 |
| [[checkmark]] | 62.5120  | 53 58    | 62 50.9  | 6.5  | 19.0 |
|               | 1 45     | 30.9     | 112      | 31.2 |      |
|               | 15 52 57 | 09.6     | 44       |      |      |
|               | 52 57    | 63 09.9  | 61       |      |      |
|               | 15 52 57 | -63 09.8 |          |      |      |
|               |          |          |          |      |      |
| 92            | 62.5179  | 15 57 29 | -63 04.1 | 8.9  | 2.1  |
| [[checkmark]] | 5120     | 53 58    | 62 50.9  | 15.4 | 10.7 |
|               | 3-31     | 13.2     | 24.3     | 12.8 |      |
|               | 56 12    | 63 02.0  | 77       |      |      |
|               | 56 12    | 1.6      | 134      |      |      |
|               | 15 56 12 | -63 01.8 |          |      |      |
|               |          |          |          |      |      |
| 242           | 64.3393  | 16 01 27 | 64 34.6  | 12.4 | 11.8 |
| [[checkmark]] | 3411     | 03 48    | -64 17.3 | 3.1  | 5.7  |
|               | 2 21     | 17.3     | 15.5     | 17.5 |      |
|               | 03 20    | 22.8     | 113      |      |      |
|               | 03 20    | 23.0     | 28       |      |      |
|               | 16 03 20 | -64 22.9 |          |      |      |

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[[6 Columned Table]]

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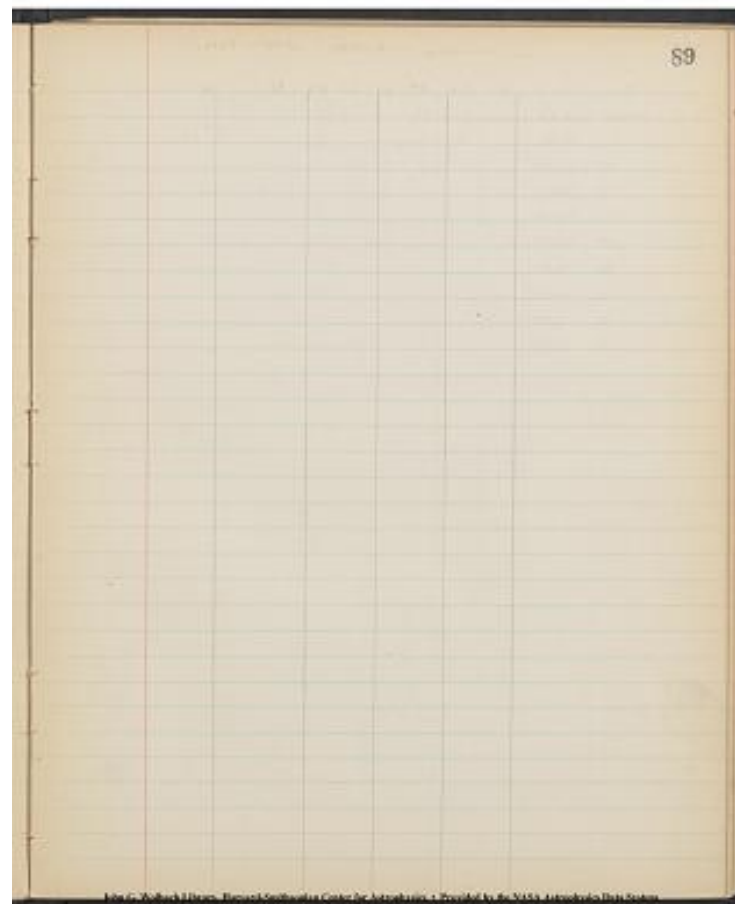
88  
 A9581  
 220|62.5309|16 15 02|-62 51.6|17.8|8.2|  
 |[checkmark]|5261|08 57|18.8|23.1|27.0|  
 ||6-05|32.8|40.9|35.2|  
 ||16 12 23|44.0|159|7.6|  
 ||12 23|44.0|206|25.2|  
 ||16 12 23|-62 44.0||  
 |||||  
 96|same||7.7|9.|[strikethrough]]4|[strikethrough]]7|  
 |[checkmark]|33.2|25.5|  
 ||40.9|35.2|  
 ||13 53|42.6|69|9.0|  
 ||13 53|42.6|296|23.8|  
 ||16 13 53|-62 42.6||

88

Notes

|          |         |      |      |      |      |      |      |     |
|----------|---------|------|------|------|------|------|------|-----|
| 220      | 62.5309 | 16   | 15   | 02   | -62  | 51.6 | 17.8 | 8.2 |
| 5261     | 08      | 57   | 18.8 | 23.1 | 27.0 |      |      |     |
| 6-05     | 32.8    | 40.9 | 35.2 |      |      |      |      |     |
| 16 12 23 | 44.0    | 159  | 7.6  |      |      |      |      |     |
| 12 23    | 44.0    | 206  | 25.2 |      |      |      |      |     |
| 16 12 23 | -62     | 44.0 |      |      |      |      |      |     |
| 96       | same    | 7.7  | 9    | 4    | 7    |      |      |     |
| 33.2     | 25.5    |      |      |      |      |      |      |     |
| 40.9     | 35.2    |      |      |      |      |      |      |     |
| 13 53    | 42.6    | 69   | 9.0  |      |      |      |      |     |
| 13 53    | 42.6    | 296  | 23.8 |      |      |      |      |     |
| 16 13 53 | -62     | 42.6 |      |      |      |      |      |     |

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 30, MWF 193 #IV  
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89



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### New Observations for M.W.F175. (1930-31 Plates)

[[14 column table]]

[[[symbol - arrow]]]38| |157|

```
|MF14160|26091.471|M?|m|M|M|m|[[symbol -
checkmark]]|M|m|??|13.0|M.| 13.0|[[symbol - colon]]|
```

|417|145.331|M|M|M|M|M||M|M|M|12.91|M|  
|13.0|IN?

|840|235.259|M|M|M|m|M[[symbol - checkmark]]|M|wed?|M[[symbol - colon]]|13.5|M| |Too mean egde 13.9?|

|913|245.231|m?|M|[(symbol - colon)]|m|M|M|[(symbol - checkmark)]|?|M|M|13.0|ft|?(13.2)

|15313|415.595|M|M|M|M|M|M|M|M|12.9|[[?]]| |13.0

|447|474.474|M|M|M|wed f|M

|489|481.410|M|M|M|M|M[[symbol - checkmark]]|M[[?]]|M[[symbol - colon]]|13.0|M|

|533|486.435|M|M|M|M|M|☒M|m|m|13.0|M|  
|12.9|[?]|12.9|:

wrong center X |566|502.427|[[symbol - dash]] |[[symbol - dash]]|  
[[symbol - dash]] |[[symbol - dash]]| | | | [[symbol - dash]]|

|600|505.380|M|M|M|M|M|☒|M|M|M|13.0|M| |13.1|

[illegible]

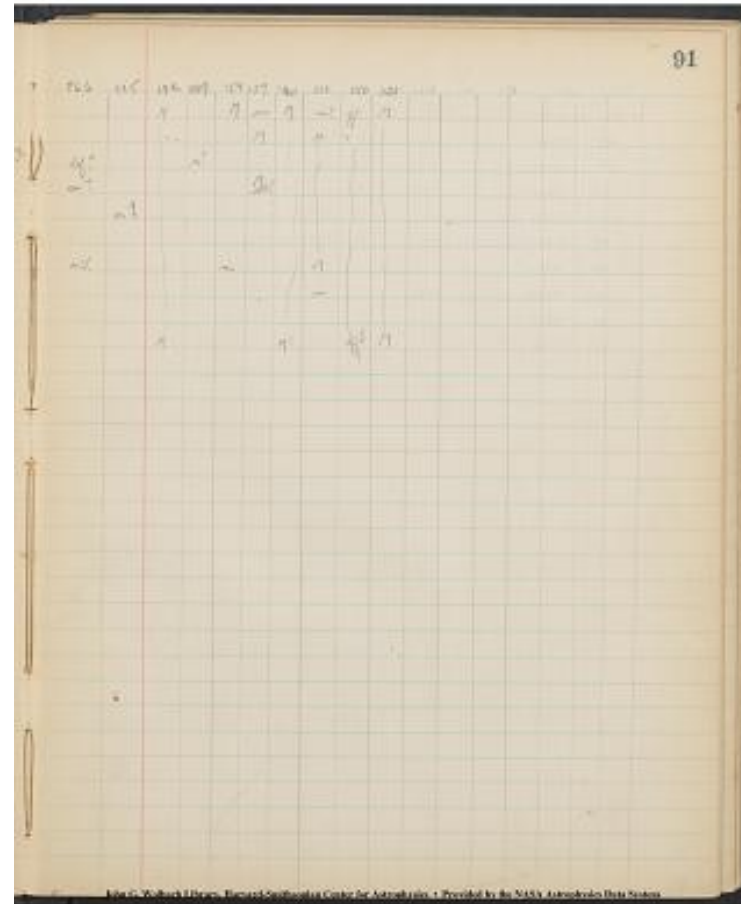
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91

[This page is in grid format with ten columns and ten rows]  
 [rows 172,160,210,250,and 321 have lines pointing from the last entry at  
 the top to the next entry down in that column]

|      |     |              |                      |     |     |              |                      |     |     |
|------|-----|--------------|----------------------|-----|-----|--------------|----------------------|-----|-----|
| 266  | 225 | 172          | 287                  | 124 | 159 | 160          | 210                  | 250 | 321 |
|      | M   |              | M                    | m   | M   | m?           | off                  | M   |     |
| off? |     | m?           |                      | M   |     | M            | "                    |     |     |
| m?   |     |              |                      | M   | m   | <del>m</del> | [end of row content] |     |     |
|      | m?  | <del>m</del> | [end of row content] |     |     |              |                      |     |     |
| m:?  |     |              |                      | m   |     |              | M                    |     |     |
|      |     |              |                      |     | m   |              |                      |     |     |
|      | M   |              |                      |     | M:  |              | off all              | M   |     |

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| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |  
| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |  
| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |  
| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |  
| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |  
| (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) | (blank) |

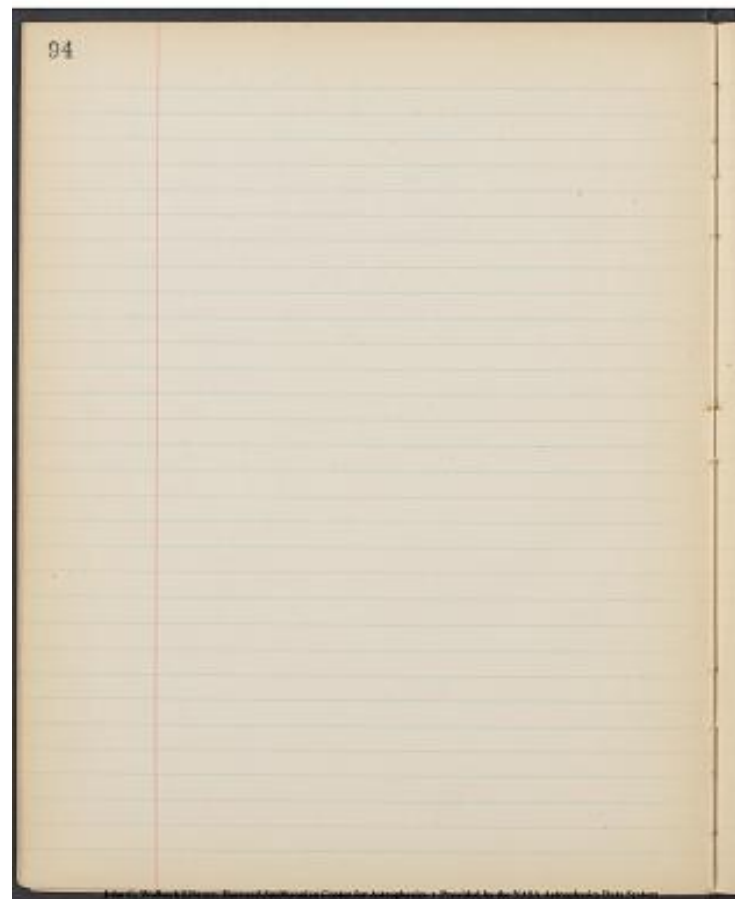
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30, MWF 193 #IV  
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## MWF30 - Magnitudes

[[12 column table]]

|    | 0               | 10              | 20              | 30            | 40            | 50            | 60              | 70            | 80            | 90            | 100           |
|----|-----------------|-----------------|-----------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|
| 1  | <del>10</del>   | <del>10</del>   | <del>10</del>   | <del>10</del> | <del>10</del> | <del>10</del> | <del>10</del>   | <del>10</del> | <del>10</del> | <del>10</del> | <del>10</del> |
| 2  | III 183,6,9     | II 183          | III 173,6       | IV 102        | IV 107        | IV 108,110    |                 |               |               |               |               |
| 3  | III 190,2,5     | IV 102          | III 183         | IV 96         | IV 103        | -             | -               | -             | IV 102        | III 172,193,5 | III 193,5     |
| 4  | -               | IV 102          | (III 182)       | III 199       | IV 102,108    | IV 103        | III 183,6       | II 173        | -             | IV 102        | -             |
| 5  | IV 96           | IV 96           | III 182         | IV 102,108    | -             | IV 96         | III 190,2,4     | -             | IV 102        | -             | III 177       |
| 6  | IV 96           | IV 102          | III 182,190     | IV 102        | -             | IV 96         | III 192,4       | III 183       | III 179,192,4 | IV 107        |               |
| 7  | -               | III 176,178,191 | III 182,186,190 | IV 102,104    | IV 96         | IV 96         | -               | -             | IV 107        | III 193,5     |               |
| 8  | III 172,176,191 | IV 96           | III 198         | -             | IV 96         | III 182,4,8,9 | III 179,193,195 | IV 103        | III 176,178   | III 193,4     | III 12        |
| 9  | III 172         | IV 103          | III 172,176     | III 178       | III 183,5,8,9 | IV 102,108    | IV 103          | III 190,2,5   | III 173,6     | III 193,5     |               |
| 10 | III 193,195     | III 183,5,8,9   | III 176,178     | IV 103        | IV 96         | -             | III 176,178     | III 173,6     | IV 96,98,100  | III 177       |               |
| 11 | IV 96           | III 198         | -               | III 199       | IV 102,108    | III 198       | IV 97-101       | III 182       | IV 96         | II 198        | IV 96,98      |
| 12 | III 179         | IV 107          | IV 107          |               |               |               |                 |               |               |               |               |



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[[11 column table]]

Plate | JD | 89 | 56 | 4 | 5 | 49 | 54 | 55 | 32 | 46 |

MF 10629 | 24738 | 12.1 | 11.7 | 16.3 | 13.6 | 13.4 | 13.3 b | 15.6 b |  
14.8 f | 16.5 f |

10709 | 761 | 12.2 | 11.2 | 16.3 | 14.3 | 15.6 f | 14.6 f | ns &lt; 16.3 f | 14.6 f | 15.5 b |

10885 | 790 | 12.3^[[2]] | 11.1 | 15.3 | 13.6 | 13.3 b | 14.4 f | ns < 16.2 f |  
14.2 b | 160: mb |11786 | 25409 | 12.2 | 11.2 | 15.0 | 14.4 | 13.6 | 13.8 | ns < 15.7 | 14.7 b |  
ns 15.7 |11873 | 417 | 12.2 | 11.1 | 14.4 | 13.0 | 13.6 | 12.9 b | ns < 15.8 | 15.1 |  
ns < 15.8 |

13576 | 888 | 12.6 | 11.3 | ns &lt; 16 | 14.6 | 13.8 b | 13.8 | 15.8 b | off | ns &lt; 16.0 f |

MA 2396 | 25808.729 | 12.1 | - | - ^[[MB 14.6:]] | - ^[[12.7]] | - | - | - | - |

2397 | .783 | 11.9 | - | - | - | - | - | - | - |

2444 | 879 | 12.3 | - | - ^[[ns &lt; 14.0]] | - ^[[13.3]] | - | - | - | - |

146776 | 25472 | 12.6 | 11.3 | ns &lt; 14.8 | 13.2 | 14.3: ^[[These near edge of plates]] | - | - | - |

46787 | 479 | 12.6 | 11.2-1 | 14.5 | 14.6 |

15. [[/strikethrough]]3 [[/strikethrough]]: | 14.2 | - | - | - |

46874 | 526 | 12.9 | 11.3 | 15.0 | 14.7 | 14.6: | 15.0 | - | - | - |

47229 | 807 | 11.9 | 11.5 | - | - | edge | off | - | - | - |

47247 | 820 | 11.7 | 11.3 | - | - | - | - | - | - |

48340 | 26129 | 12.3 | 11.3 | - | - | - | - | - | - |

48410 | 153 | 12.2 | 11.3 | - | - | edge | edge | - | - | - |

48442 | 162 | 12.2 | 11.5 | ns &lt; 15.6 | 13.2 | 14.3 | 13.8 | - | - | - |

48475 | 174 | 12.6 | 11.7 | - | - | - | - | - | - |

48513 | 187 | 12.5 | 11.7 | - | - | - | - | - | - |

48517 | 187 | 12.5 | 11.8 | - | - | - | - | - | - |

48524 | 188 | 12.6 | 11.7 | - | 13.2 | 14.6: | ft | - | - | - |

48533 | 189 | 12.6 | 11.7 | - | 13.3 | 14.6 | ft | - | - | - |

48624 | 209 | 12.7 | - ^[[[?]] too near edge]] | - | - | off | - | - | - | - |

48639 | 215 | 12.8-9 | 11.3 | - | - | - | - | - | - |

49836 | 572 | 12.3 | 11.5: | - | - | - | - | - | - |

17005 | 13768 | | ns &lt; 15.6 | 13.6 | | | | |

MB 2416 | 25828 | | | 14.5: | 13.3 | | | | |

MB 2556 | 26271 | | ns &lt; 19.5 | 14.2 | | | | |

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[[image]] a b c d e

[[12 Columned Table]]

| special seq. 32 | 103 scale by 5 steps | 40 | orig seq II 70 | 18 | 36 | 37 |  
 60 | 14 overlap | 10 Long | 17 | |  
 | 15.1 | b2 10.2 | ns | 15.2 | 14.9 | 15.7 | 15.2 | 13.0 ft | ns prob br | 13.4 |  
 12.9 red br | |  
 | 15.1 | b0 10.0 | 12.3 | 15.2 | 15.2 | 15.3 br | 14.5 b | 13.1 ft | ns < 16.2 |  
 14.1 ^[[b]] | 12.9 red | |  
 | 14.2 | a4 9.9 | 14.3 | 15.2 | 15.7 | 16.4 ft | 14.3: b | 13.0 | ns | 15.3 | 13.0  
 red br | |  
 | 15.0 | b1 10.1 | ns | 15.3 | 15.2: | 15.5: br | 15.2: edge | 12.3 b | ns: | ns  
 < 16.0 | ~~14.6~~ | ~~15.5~~ | f | 14.6 |  
 | 15.1 | b1 10.1 | ns | 15.2 | 15.2: | 15.7 | 15.6: | 12.5 b | ? ns or overlap |  
 ns < 15.7 ft | ~~14.7~~ | ~~15.5~~ | 14.7 | |  
 | off | b1: 10.11: burned out | ns | 15.2 | 15.3 | 16.0 ft | 15.7 f | 12.8 | ? ns  
 or overlap | ns < 16.0 | 14.8 | |  
 | | | | | | | | | | | | | |  
 MB ft (15.2:) | | ns < 15.5 | | | | | | | | | |  
 - | | ns < 15.5 | | | | | | | | | |  
 14.4 | | ns | | | | | | | | | |  
 | | | | | | | | | | | | | |  
 | b1-c 10.1 | ns | | too faint | - | - | 12.2 | - | - | 13.8 | |  
 | c 10.4 | ns | | too faint | 15: 0:: | ns < 14.8 | 12.2 | - | 14.8: | 14.4 | |  
 | c 10.4 | ns | | too faint | - | - | 12.1 | - | 13.5: | 13.0 | |  
 | b3-c 10.3 | ns < 15.0 | | | - | 12.0 | - | 14.0 | 14.3: | |  
 | c2-d 10.5 | ns < 14 | | | - | 12.3 | - | - | ns < 14.3 | |  
 | b3 10.3 | ns | | | - | 12.3 | - | - | 13.8 | |  
 | b2 10.2 | ns | | | - | 12.3 | - | - | ns < 12.7 | |  
 | c1 10.5 | ns < 14.5 | | | | 12.3 | - | ns < 14.2: | 14.2: | |  
 | b4 10.3 | ns < 14.0 | | | | 12.3 | - | - | < 14.0 | |  
 | d 10.7 | ns | | | | 12.2 | - | - | - | |  
 | b2 10.2 | ns | | | | 12.4 | - | ns < 14.3 | |  
 | b4 10.3 | ns | | | | 12.3 | - | 13.9: | |  
 | c2 10.5 | ns | | | | 12.2 | | ns < 14.5 | |  
 | b4 10.3 | ns | | | | 12.1 | - | - | |  
 | a4 9.9 | ns | | | | 12.3 | - | - | |  
 | b1 or 0 10.0 | ns | | | | 12.5 | - | - | 14.1 | |

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 30, MWF 193 #IV  
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[[top margin]] 124 128 42 117 87

-----|-----|89|56|4|5|49|54|55|32|46  
 MC 22695|25140|12.5|11.7|14.6|14.7|14.2|15.0|16.3:  
 15.6|nsh [[guess]] 16.3|  
 22562|039|12.5|11.7|16.0|13.5|14.4|14.2|ns<16.0|15.6|ns |  
 23461|25415|11.9 12.0|off|off|off| - | - | - | - |  
 23567|468|12.7| (blank)|MD (underlined)|MD  
 (underlined)|(blank)|(blank)|(blank)|(blank)|(blank)|  
 24318|792|12.1|(blank)|13.8|13.8|(blank)|(blank)|(blank)|(blank)|(blank)|  
 24325|795|12.1|(blank)|13.7|14.2|(blank)|(blank)|(blank)|(blank)|(blank)|  
 24948|26128|12.6|(blank)| - | - |(blank)|(blank)|(blank)|(blank)|(blank)|  
 24951|129|12.2|(blank)| not  
 near|enough|(blank)|(blank)|(blank)|(blank)|(blank)|  
 24953|130|12.4|(blank)|The|center|(blank)|(blank)|(blank)|(blank)|(blank)|  
 |  
 24956|131|12.3|(blank)|(therefore symbol)  
 not|useful|(blank)|(blank)|(blank)|(blank)|(blank)|  
 24973|144|12.3|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24978|148|12.3|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24981|149|12.2|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24985|150|12.0|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24986|151|12.1|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24991|155|12.2|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 24994|156|11.9|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25000|162|12.45|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(b  
 lank)|  
 25005|163|12.5|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25029|175|12.5|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25060|202|12.6|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25070|207|12.7|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25075|209|12.78|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(b  
 lank)|  
 250832 (077)|217  
 (209)|13.0|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|  
 25083|219|12.9|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25109|231|12.8: (for  
 image?|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|  
 25111|232|12.9|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25112|235|?12.2 by denest? 13.0 by  
 size|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|  
 25113|238|13.2|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(bl  
 ank)|  
 25118|239.540|13.3|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|(blank)|  
 |(blank)|

| MC           | 22695   | 25140     | 12.5       | 11.7               | 14.6         | 14.7    | 14.2    | 15.0    | 16.3    |
|--------------|---------|-----------|------------|--------------------|--------------|---------|---------|---------|---------|
| 15.6         | nsh     | [[guess]] | 16.3       |                    |              |         |         |         |         |
| 22562        | 039     | 12.5      | 11.7       | 16.0               | 13.5         | 14.4    | 14.2    | ns<16.0 | 15.6    |
| 23461        | 25415   | 11.9      | 12.0       | off                | off          | off     | -       | -       | -       |
| 23567        | 468     | 12.7      | (blank)    | MD                 | (underlined) | MD      |         |         |         |
| (underlined) | (blank) | (blank)   | (blank)    | (blank)            | (blank)      | (blank) |         |         |         |
| 24318        | 792     | 12.1      | (blank)    | 13.8               | 13.8         | (blank) | (blank) | (blank) | (blank) |
| 24325        | 795     | 12.1      | (blank)    | 13.7               | 14.2         | (blank) | (blank) | (blank) | (blank) |
| 24948        | 26128   | 12.6      | (blank)    | -                  | -            | (blank) | (blank) | (blank) | (blank) |
| 24951        | 129     | 12.2      | (blank)    | not                |              |         |         |         |         |
| near         | enough  | (blank)   | (blank)    | (blank)            | (blank)      | (blank) |         |         |         |
| 24953        | 130     | 12.4      | (blank)    | The                | center       | (blank) | (blank) | (blank) | (blank) |
|              |         |           |            |                    |              |         |         |         |         |
| 24956        | 131     | 12.3      | (blank)    | (therefore symbol) |              |         |         |         |         |
| not          | useful  | (blank)   | (blank)    | (blank)            | (blank)      | (blank) |         |         |         |
| 24973        | 144     | 12.3      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24978        | 148     | 12.3      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24981        | 149     | 12.2      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24985        | 150     | 12.0      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24986        | 151     | 12.1      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24991        | 155     | 12.2      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 24994        | 156     | 11.9      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25000        | 162     | 12.45     | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25005        | 163     | 12.5      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25029        | 175     | 12.5      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25060        | 202     | 12.6      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25070        | 207     | 12.7      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25075        | 209     | 12.78     | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 250832       | (077)   | 217       |            |                    |              |         |         |         |         |
| (209)        | 13.0    | (blank)   | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25083        | 219     | 12.9      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25109        | 231     | 12.8      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25111        | 232     | 12.9      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25112        | 235     | ?12.2     | by denest? | 13.0               | by           |         |         |         |         |
| 25113        | 238     | 13.2      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |
| 25118        | 239.540 | 13.3      | (blank)    | (blank)            | (blank)      | (blank) | (blank) | (blank) | (blank) |

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30, MWF 193 #IV  
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[[12 columned table]]

32 | MD 103 | 40 | 70 ^[[new seq (poor:)] | 18 | 36 | 37 | 60 | 14 | 10 |  
17 | 75 |

---|---|---|---|---|---|---|---|---|---|---|---

| 14.9: | - | ns | 15.3 | 15.4 2: | 16.1 | 15.5 | 12.5 | ~~[[strikethrough]]~~  
ns < 16.2 | ~~[[strikethrough]]~~ 15.6 ft | ns < 16.2 f | 12.3 br | 14.2 br |  
| 15.1 | - | ns | 15.2 | ~~[[strikethrough]]~~ 15.6 | ~~[[strikethrough]]~~ min | 16.1 |  
15.7 | 12.3 | (13.3) 13.8 br | 14.1 br | 13.6 ft | 14.5 |  
| - | ns | 15.0 | 15.7 f | 16.0: | 15.6 | 12.5 | 15.5 15.0 | off | off | 14.1 |  
| - | ns | 15.4: | 15.6 f | ns < 15.5 | 14.1 | 12.0 | 13.8 | - | - | 14.5 |  
| 10.2 | ns | 15.2 | 15.5 f | ns < 15.6 | 15.5 | 12.5 | 15.5: | | | 14.7 |  
| 10.1 | ns | 15.6 | 15.7 | 15.7 | 15.5 | 12.3 | ~~[[strikethrough]]~~ 13.7  
~~[[strikethrough]]~~ 15.3 ft | | | 14.7 |  
| 10.3 | ns | - | ns < 14.8 | ns | 12.1 | - | - | - | 14.4: |  
| 10.2 -1 | ns | 15.4 | | ns < 15.0 | 15.0: | 12.2 | ns < 15.3 | | | 14.7 |  
| 10.2 | ns | 15.4 | | 15.5: ~~[[symbol - star]]~~? | 15.1 | 12.3 | ft | - | - | 14.7  
  
| 9.9 | ns | 15.4: | | ~~[[strikethrough]]~~ 14.5 | ~~[[strikethrough]]~~ ? | 14.5 |  
11.9 | 15.1: | - | - | 14.5 |  
| 10.1 | ns | 15.2 | | ns < 15.1 | ns < 15.1 | 12.2 | ~~[[strikethrough]]~~ 15.3  
~~[[strikethrough]]~~ | | | 14.2: |  
| 10.2 | ns | 15.2 | | - | 15.3 | 12.2 | 15.0: | | | 14.7 |  
| 10.2 | ns | 15.2 | | ns < 15.5 | 15.2 | 12.0 | 15.5: | | | 14.7 |  
| 10.1 | ns | 15.4 | | ns | 14.7 | 12.3 | - | | | 14.5 |  
| 10.1 | ns | 15.1 | | 15.6? | 15.0 | 12.4 | 15.5 | | | 14.3 |  
| 10.3 | ns | 15.2 | | 16.1: | 15.3 | 12.3 | 15.3 | | | 14.7 |  
| 10.3 | ns | 15.2 | | ns | 15.3 | 12.3 | ? | | | 14.8 |  
| 10.5 | ns | 15.1 | | ? | 15.2 | 12.0 | 15.5: | | | 14.2 |  
| - | ns | 15.4 | | ns | 15.0 | off | - | - | - | 14.7 |  
| 10.2 | ns | 15.2 | | ns | 15.5 | 12.0 | ? | | | 14.7 |  
| 10.3 | ns | ? | | ns | 12: | 12.3 | 15.3: | | | 14.7 |  
| 10.3 | ns | 15.1 | | ns | 14.0 | 12.2 | 15.2 | | | 14.5 |  
| 10.3 | ns | 15.2 | | 15.5: | 15.0 | 12.2 | 15.0 | | | 14.3 |  
| 10.1 10.3 | ns | - | | - | - | 12.2 | - | - | | 14.6: |  
| 10.1 | ns | 15.1 | | - | 15.3 | 12.0 | 15.1 | | | 14.6: |  
| 10.1 | ns | - | | - | - | 12.1 | - | | | - |  
| 10.2 | | - | | - | 12.5 | | | | 14.5 |  
| - | ns | 15.0 | | ns < 15.6 | 15.1 | 12.4 | 14.8: | | | 14.5 |  
| 10.2 | ns | 15.1 | | ns | 14.9 | 12.0 | 14.9 | | | 14.9 |

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
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[[11 column table]]

```

---|---|---|---|---|---|---|---|---|---|
| 89 | 56 | 4 | 5 | 49 | 54 | 55 | 32 | 46 |
MC 25119 | 26239.608 | 1311 | 14 |
|
25124 | 242 | 13.0 |
25128 | 243.537 | 13.1 |
25129 | .609 | 13.1 |
25133 | 247.534 | 13.1 |
25134 | .609 | 13.1 |
25175 | 270 | 13.0 |
25179 | 271 | 13.0 |
25184 | 272 | 12.6 |
25214 | 291 | 12.6 |
25220 | 300 | 12.3 |
25536 | 535 | 12.5 |
25539 | 536 | 12.3 |
25541 | 539 | 12.3 |
25543 | 539 | 12.3 |
25545 | 545 | 12.2 |
25567 | 558 | 12.3 |
25571 | 559 | 12.2 |
25582^[[576 578]] | 569^[[560 560]] | 12.2 |
25589 | 572 | 12.1 |
25595 | 585 |
|
B54172 | 26095 | 13.0 | | 15.0 13.6 |
14.2 15.0 | 15.0 14.7 | 14.9 | h5<16.0 | 15.5 |
16.4 |
345 | 131 | 12.3 | | 16.0 | 14.4 | 14.2 | 14.6 | ? | 15.5 | h5<16.3 |
410 | 153 | 12.2 | | n5<15.8 | 14.8 15.3 |
14.6 | 14.6 | | h5<16.0 |
508 | 175 | 12.6 |
604 | 190 | 12.5 |
B54650 |

```

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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[[13 columned table]]

| 32 | 103 | 40 | 70 | 18 | 36 | 37 | 60 | 14 | 10 | 17 | 75 | --- |

| 10.2 | ns | 15.4 | | ns | 15.0 | 12.5 | 15.1 | - | - | 14.6 | |  
 | 10.2 | ns | 15.3 | | ns | 15.0 | 12.5 | 15.0 | - | - | 17.6 | |  
 | 10.3 | ns | not even contact 14.9 | | ns | 14.0 | 12.3 | 15.0 | - | - | |  
 14.4 | |  
 | 10.4 | ns | 15.0 | | 16.0 | 14.9 | 12.0 | 14.9 | | 14.6 | |  
 | - | ns | 15.0 | | ns | 14.9 | 11.9 | 15.0 | | 14.7 | |  
 | - | ns | 15.3 | | 15.9 | 14.4 | 12.2 | 15.0 | | 14.7 | |  
 | 10.3 | ns | 15.3 | | 16.2 | 15.5 | 12.0 | 15.5 | | 14.7 | |  
 | 10.3 | ns | not even contact 14.9 | | ns | 15.2 | 12.0 | 15.3 | | 14.9 |  
 | 10.3 | ns | 15.3 | | ns | 14.5 | 12.4 | 15.2 | | 14.7 | |  
 | 10.5-6 | ns | 15.6 | | ns | 15.0 | 12.5 | 15.2 | | 14.7 | |  
 | 10.0-1 | ns | - | | ns | 15.3 | 12.3 | ? | | 14.8 | |  
 | 10.2 | ns | 15.4 | | ns | 15.1 | 12.2 | 15.2 | | 14.4 | |  
 | 10.0-1 | ns | - | | ns | 15.2 | 12.5 | - | | 14.6 | |  
 | 10.3 | ns | 15.1 | | 15.5 | 15.0 | 12.2 | ns? | | 14.8 | |  
 | 10.3 | ns | 15.5 | | ns < 15.2 | 15.0 | 12.0 | ns: | | 14.4 | |  
 | 9.9 | ns | 15.1 | | 16.0 | 14.8 | 12.1 | ? | | 14.7 | |  
 | - | ns | 15.0 | | ns < 15.3 | 14.9 | 12.6 | 15.3 | | 14.4 | |  
 | 9.9 | ns | - | | (ns < 15.0 | ns | 12.5 | - | - | - | |  
 | (10.5 | ns | 15.2 | MC 25578 | - | 15.2 | 12.4 | - | | 14.7 (578) |  
 14.9: | |  
 | 10.4 | 10.1 | 10.2 | ns | - | - | 14.9 | 12.0 | - | | 14.8: | |  
 | 10.3 | ~~ns~~ | ns | ~~15.2~~ | MC 25578 | - | 15.2 | 12.4 | - | | 12.3 | - |  
 | 14.7 | |  
 | | | | - | - | 12.5 | - | MC 25 | 600 | 14.7 | 25614, 14.6 |  
 | | | | | 606 611 | 14.7 14.8 | 619 626 | 14.4 14.3 |  
 | | | | | 633 14.5: |  
 | 14.9 | 10.5 | ns < 16.3 | | 14.0: | 15.3 | 15.2 | 12.7 | ft: | 15.3 | 13.7 | |  
 | 15.3 | 10.4 | ns\*\* | | b: | 15.3 | 15.5• | 12.4-3 | ? overlap | ft 15.8: | 14.0 |  
 | 10.2 | ns | - | 15.0: | 15.4 | 12.1 | - | ns < 15.4 | 14.9 | |  
 | 10.1 | ns < 15.3 | - | - | 12.0 | - | - | |  
 | 10.1 | ns < 15.3 | - | - | 12.2 | - | - | |

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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[[12 column table]]

| --- | --- | 37 | 36 | 83 | 84 | 82 | 12 | 81 | 35 | 11 | 12 |

| MF 10629 | 24738 | 10709 | 14.2^M | 15.3^M | 15.0 | 13.8 | 15.3 | 16.1 |  
 16.2 | 15.3^M | ns < 16.2 | 16.3 |  
 | 10709 | 761 | 10629 | 15.5 | 16.1 | 15.0 | 14.5 | 15.2 | 16.3: | ns < 16.3 |  
 15.3^M | ns < 16.3 | 15.2 |  
 | 10885 | 790 | 14.1^M | 15.7^M | 15.8 | 13.7 | 15.3 | 15.2 | ns < 16.3 |  
 15.3 | 16.4 | ns < 16.3 |  
 | 11786 | 25409 | 14.1 | 15.5^M | 15.4 | 14.6 | 15.4 | off | off | 1.5 | 13.3 |  
 15.3: |  
 | 11873 | 417 | 15.7 | 15.8 | blurred | 14.6 | 15.5 | ns < 15.9 | ns < 15.9 |  
 15.4^M? | 14.1 | 15.5 |  
 | 13576 | 888 | 15.5^M | 16.0^M | 15.3: blurred | 14.1 | 15.5: | ns < 16.0  
 ?blurred | 16.0^M | ns < 16.0 | 16.0: |  
 |  
 | B 54172 | 26095.638 | 15.3 | 15.3 | 15.4 | 13.8 | 15.3 | ns < 15.8 | - | - |  
 14.5 | - |  
 | 345 | 131.623 | 15.2 | 15.3 | blurred | 13.7 | 15.3 | ns < 16.2 | 14.8 |  
 15.3: | 14.5 | 16.0 |  
 | 410 | 153.599 | ns < 15.4 | 15.1: def? | blurred | 14.0 | 15.2: | ns < 15.0:  
 14.1 | - | 14.1 | - |  
 | 508 | 174.526 | - | - | - | 13.8 | - | off | - | - | - | - |  
 604 | 190.485 | ns < 1.48 | ns | - | 13.7 | - | - | - | - | - | - |  
 54650 | 217.347 | | | | | | | | | | | |  
 |  
 | 46776 | 25472 | ns < 14.2 | - | - | 13.7: | - | - | - | - | - | - |  
 46787 | 479 | 14.8: | ns < 14.7 | | 13.8 | ~~[[strikethrough]]~~ ns < 1  
~~[[strikethrough]]~~ | ns < 14.8 | - | - | ns | - |  
 46874 | 526 | ns < 14.8 | ns | - | 13.8 | - | ns | ns | - | ns | - |  
 47229 | 807.716 | ns < 14.8 | AS1? | - | 13.9 | - | ns | ns | - | - | - |  
 47247 | 820.683 | - | - | - | 13.8: | - | - | - | - | |  
 48340 | 16129.771 | - | - | - | 13.7 | - | ns | ns | - | - | - |  
 410 | 153.795 | | | | 13.7 | | | 13.5 | | | |  
 442 | 162.796 | - | - | - | 13.4 | | ns < 14.7 | 14.2 | - | 14.0 | - |  
 475 | 179.652 | ns < 14.3 | | 14.0 | | ns | ns | | off | |  
 513 | 187.618 | - | | | 14.0: | | - | - | - | - |  
 517 | 187.742 | | | | 13.7 | | - | - | - | - |  
 524 | 188.667 | | | | 14.0 | | - | - | - | - |  
 533 | 189.657 | 15.0: | | | 13.8 | | - | - | - | - |  
 624 | 209.640 | | | | 14.0 | | - | - | - | - |  
 48639 | 215.635 | | | | 13.7 | | - | - | - | - |  
 49836 | 572.592 | | | | 13.7 | | - | - | - | - |

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 30, MWF 193 #IV  
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103

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[[12 Columned Table]]

| | MD 10|MD 17|[MD 60|MC 37|36|83|84|82|13|81|

|MC22695|25140.561|15.1|16.1|16.1 ^[[m]]|13.7  
 ^[[M]]|15.9|15.0|16.1 ^[[m]]|  
 22562|039.796|15.2|15.5|15.6|13.8|16.0 ^[[m]]|ns<16.0|16.0|  
 23461|415.763|15.5|15.6|15.8|13.7|15.8|n|?  
 23567|468.665|14.1|ns<15.6|ns|13.8|15.8|off|off|  
 24318|792.770|12.9|14.2: ^[[[]]]|12.3|15.2|ns<15.7|ns?|13.7|15.7|15.7|  
 24325|795.758|12.9|14.9|12.0|15.4|16.0:|16.0: ^[[m]]|13.6|15.5|15.5|15.5|  
 24948|26128.815|14.1 ^[[14.0]]|ns<14.5|14.0 ^[[13.7]]|13.7|15.7|15.7|  
 951|129.791|15.2|ns<15.3|def|13.8|15.3|15.3|15.3|  
 953|130.801|11.9|15.0|15.2|13.4 ^[[M]]|15.0|15.0|15.0|15.0|  
 956|131.781|14.1|15.8|15.4|13.2|15.4|15.4|15.4|  
 973|144.744|15.0|ns<15.0|13.8 ^[[m]]|14.7|14.7|14.7|14.7|  
 978|148.742|15.2|15.5|15.0|13.8|14.9|14.9|14.9|  
 981|149.717|14.5 ^[[14.3]]|ns<15.4|13.8|15.0|15.0|15.0|  
 985|150.804|14.5|ns<15.1|14.5? ^[[symbol - star]]|13.8|14.9|14.9|14.9|  
 986|151.756|15.0|ns<15.6|15.0 ^[[M]]|13.8 ^[[M]]|15.0 ^[[M]]|15.0 ^[[M]]|  
 991|155.787|15.2|15.8|15.1 ^[[M]]|14.0 ^[[m]]|15.0|15.0|  
 ^[[M]]|ns<15.6|14.8 ^[[M]]|  
 994|156.720|15.0|ns<16.0|14.7|13.8|15.4|15.4|15.4|  
 25000|162.731|15.2|15.5|15.0|13.8|15.0|15.0|15.0|  
 25005|163.788|15.3|15.2|15.0|13.5|15.1|15.1|15.1|  
 25029|175.654|15.5|15.2|15.0|13.7|15.5|15.5|15.5|  
 25060|202.589|15.0|15.0|13.6|13.6|13.6|13.6|13.6|  
 25070|207.609|14.0|15.5|15.3|13.8|15.8|ft|ft|ft|ft|  
 25075|209.581|15.0|15.4|15.3|13.8|15.5|ft|ft|ft|ft|  
 25082|217.593|15.0|15.4|15.3|13.8|15.5|ft|ft|ft|ft|  
 083|219.611|15.4|15.3|13.6|15.4|15.4|15.4|15.4|  
 109|231.543|13.6|13.6|13.6|13.6|13.6|13.6|13.6|  
 111|232/539|14.1? ^[[14.6: def?]]|15.0|13.2|14.9|14.9|14.9|  
 112|235.526|14.9|14.0|14.0|14.0|14.0|14.0|14.0|  
 113|238.536|15.0|15.2|13.5|15.2|15.2|15.2|15.2|  
 118|239.540|14.9|15.2|13.4|14.9|14.9|14.9|14.9|

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[[13 Columned Table]]

| 35 | 11 | 12 | 15 | 39 ^[[Seq IV]] | 18 | 42 | 43 |---| 67 | 68 | 96 | 87|

| 15.8 ^[[15.5]] | 14.5 | 15.3 | 15.0 | 15.6 | 15.0 | ns<15.3 ^[[edge]] | 15.7:  
| 15.3 ^[[seq 42]] | 15.3 ft | 16.0-2 ft | 15.2 |---|| 15.3 | 15.2 | ns<16.0 | ns<16.0 | 15.2 | ns | edge | 15.7: ^[[ft - near  
edge]] | 15.4 ^[[42]] | | ~~14.6~~ | 15.3 |  
~~16.0~~ | 15.8 | 15.4 |---|| off | off | off | 15.4: | 15.0 | ns | ns<15.5 | 15.0 | 15.0 | 14.6 br | 15.7 br |  
15.2 |---|

| - | - | - | 15.5 | 15.2 br | ns | 15.1 | 15.6: | 15.5: | 14.9 br? | 16.0 | 15.4: |---|

| - | - | - | ns&lt;15.6 | 14.5 | ns | 15.1 | 15.6 | 15.5 | 15.5 | ns&lt;15.6 | 15.3 |---|

| - | - | - | ns&lt;15.5 | 14.7 | ns | 15.1 | 15.5 | 15.5 | 15.55 ft | 16.0 | 15.1 |---|

|---|---|---| - | - | 14.9 | - | - | 15.3?? | | ~~15~~ |  
| 15.2: | ft ||---|---|---| ns<15.3 | 14.5 | 15.0 | 15.0 | 15.3: ft | 15.5: |  
15. | ~~6~~ | 3 | ns | 15.5 | 15.3 || - | - | - | ns<15.3 | 14.6 ^[[.9]] | 14.5 | - | 15.2 | 15.1 | 15.3 | 15.6: | 15.2 |  
15.2: |

|---|---|---| ns&lt;15.3 | 14.5 | 14.5 | 15.0 | 15.6 | 15.4 | 15.5 | - | 15.1 | - |

|---|---|---| - | 14.6 | 15.1 | - | 15.4: | 15.2: | 15.3 |---| 15.15 | 15.1 |

|---|---|---| 15.0 | 14.6 | 14.8 | 15.0 | ns&lt;15.0 | 15.6 | 15.3 | ns | 15.2 | 15.5

|---|---|---| 15.3 | 14.2 | 15.2 | 15.1 | 15.6: | 15.6: | 15.6 | ns | 15.2: | 15.5: |

|---|---|---| 15.1: | 14.6 | 15.2 | - | 15.7: | 15.3: | 15.8 | ns | 15.4 | - |

|---|---|---| 15.2 | 14.4 | 14.9 | 15.1 | 15.8 |  
15. | ~~5~~ | -6 | 15.6 | - | 15.2-3 | 15.3 || 15.5 | 13.5 | 15.1 | 15.0 | 14.5 | 15.1 | 15.1 | 15.1: | 15.0 | 15.5 | ft | 15.2  
15.4 |

|---|---|---| 14.9 | 14.5 | 15.2 | 15.0 | 15.2 | 15.3 | 15.5 | - | 15.5 | - |

|---|---|---| - | 14.5 | 15.2 | 15.3 ^[[near plate]] | 15.5? | 15.6 | 15.2 | ft |

15.2 |---|

|---|---|---| - | 14.2 | 15.1 | - | 15.7: | 15.5: ^[[15.6-7]] | 15.3 | 15.8: | 15.2 |  
14.6 |

|---|---|---| 15.0 | 14.4 | 15.5: | <15.3 ^[[ns]] |---|15.4: | 15.0 | ns | 15.2 |  
15.5 |

|---|---|---| 15.2 ^[[not high]] | 14.6: | 15.5: | - | - | | - ? ^[[15.3:]] | 15.5 | - |  
15.4 |---|

|---|---|---| 15.2 | 15.0: | ns<15.3 | ns<15.3 | 15.3: | 15.2 | 15.5 | ns | 15.2 |  
15.3 |

|---|---|---| <15.2 | 14.7: | ns | - | 15.0 | 15.0 | 15.2-3 | ns | 15.3 | 15.3 |

|---|---|---| ns<15.0 | - | ns | - | - | - | 15.5: | - | ns<15.0 | 15.3 |

|---|---|---| - | 15.0 | ns | - | 15.6 | - | 15.3 |---| 15.4: | 15.2 |

|---|---|---| ns<15.1 | - | ns | - | - | -? | 15.3: |---| 15.2 |---|

|---|---|---| ns<15.1 | 14.8: | ns | - | - | - | 15.0 |---| 15.3 |---|

|---|---|---| - | - | - | - | - | - | - |---| - |---|

|---|---|---| ns<15.6 | 15.0: | ns | ns<15.3 | 15.5 | 15.5 | 15.0 | ns | 15.2 |---|

|---|---|---| - | 15.0 | ns | ns<15.3 | 15.0 | 15.0 | 15.2 | - | 15.5-4 |---|

|---|---|---|---|---|---|---|---|---|---| 25184 | 15.0 |---|

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30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28



[[11 columned table]]

| --- | --- | 37 | 36 | 83 | 84 | 82 | 15 | 39 | 18 | 42 |

| MC25119 | 26239.608 ~~510~~ ~~15.0~~ |  
 15.0 | 15.0: | 13.5 | 15.0 | ns < 15.2 | 15.0 | ns | ns < 15.7 |  
 | 124 | 242.529 | 15.2 | 15.1: | ns < 15.1 | 13.7 | 15.0 | ns < 15.0 | 14.8 |  
 ns | - |  
 | 128 | 243.537 | 14.0 | 15.5: | ns <? | 15.5 | 13.8 | 14.5 | ns < 15.4 | 15.0 |  
 ns | 15.6 |  
 | 129 | 1609 | 14.9 | 15.5 | 15.5 | 14.0 | 15.2 | ns < 15.4 | 5.0 | ns | - |  
 | 133 | 247.534 | 14.1 | 14.4 | 15.3 | ns < 15.4 | 14.1 | 15.0 | ns < 15.2 |  
 14.8 | ns | ns < 15.3 |  
 | 134 | 1609 | 14.0 | 14.4 | 15.0 | - | 14.0 | 15.0 | 15.5: | 15.2: nft | ns | - |  
 | 175 | 270.500 | 15.4: | ns < 15.4 | 15.5: | 14.0 | 15.5 | ns < 15.5 | 14.9 |  
 ns | 16.0: |  
 | 179 | 271.518 | 15.3 | - | - | 14.0 | 15.3 | ns < 15.3 | 15.2 | ns | ns < 15.3 |  
 |  
 | 184 | 272.503 | ~~15.0~~ ~~14.5~~ | 15.5 | ns < 15.5 | 13.7 | 14.9 | ns < 15.3 | 15.1 ft | ns | - |  
 | 214 | 291.523 | 15.0 | - | ns < 15.3 | 14.0 | 15.2 | ns < 15.3 | 15.0: | ns |  
 15.3 |  
 | 220 | 300.481 | 15.3 | ns < 15.3 | - | 13.8 | ns < 15.3 | ns < 15.1 | 15.0: |  
 ns | - |  
 | 25 536 | 26 535.719 | 15.3 | 15.8 | 15.6: | 14.2 | 15.3 | ns < 15.6 | 15.1  
 mb | 15.5 | ns < 15.6 |  
 | 539 | 536.608 | 14.9: | - | - | 13.8 | - | - | - | - |  
 | 541 | 539.610 | 15.1 | 14.9 | - | 14.0 | 15.0 | ns < 15.2 | 15.0 | 15.5: | - |  
 | 543 | 539.780 | 15.2 | 16.0: | 15.8 | 14.0 | 15.4 | ns < 15.6 | 14.6 | 15.5 |  
 ns < 15.6 |  
 | 545 | 545.759 | 14.9 | 16.1 | 15.2 | 14.0 | 15.5 | ns < 15.8 | 15.0: med |  
 15.0 | ns < 15.5 |  
 | 567 | 558.643 | 15.5: | 15.5 | 14.0 | 15.3 | ns < 15.3 | 15.1 | 14.6 | ns < 15.3 |  
 | 571 | 559.587 | ns < 15.0 | ? | - | 13.8 | - | ns < 15.3 | 14.3: mb | 14.5 | - |  
 | 576 | 560.600 | | | | | | | | | |  
 | 578 | 560.681 | 15.4 | ns < 15.3 | 15.3 | 14.0 | 15.4 | ns < 15.3 | 15.1 |  
 15.3: | - |  
 | 582 | 569.665 | 15.2 | 15.2: | - | 14.0 | 15.2: | ns < 15.0 | ns < 15.0 | 15.2  
 - |  
 | 589 | 572.580 | - | - | - | 14.0 | - | - | 15.2: | 11.2 | - |  
 | 595 | 585.563 | 15.2: | - | - | 14.0 | 15.2 | - | 15.0 | 11.1 | - |  
 | 600 | 589.592 | 14.9 | - | - | 13.8 | - | - | 15.0 | 14.3 | - |  
 | 606 | 592.576 | 15.0 | 15.4: | - | 13.8 | 15.2 | ns < 15.0 | 15.2: ft. | 14.3 | - |  
 |  
 | 611 | 593.573 | 15.2 | 15.5 | 15.2 | 13.7 | 15.5 | ns < 15.0 | 15.3 | 15.3: |  
 ns < 15.3 |  
 | 614 | 594.562 | | | | | | | | | |  
 | 619 | 595.569 | 14.9 | 15.5: | - | 13.8 | 15.4 | ns < 15.1 | 15.3 | 15.2 | - |  
 | 626 | 597.563 | | | | | | | | | |  
 | 633 | 603.554 | | | | | | | | | |  
 MA 2396 | 25 808.729 | ft. | | | | | | | | | |  
 2397 | .783 | ft. | | | | | | | | | |  
 244 | 879. | - | | | | | | | | | |

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106

| ST      | 34         | 35        | 36        | 37        | 38        | 39        | 40        | 41        | 42        |
|---------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 124     | 242.529    | 15.2      | 15.1      | 13.7      | 15.0      | ns < 15.0 | 14.8      |           |           |
| 128     | 243.537    | 14.0      | 15.5      | 15.5      | 14.0      | 15.2      | ns < 15.4 | 5.0       | ns        |
| 133     | 247.534    | 14.1      | 14.4      | 15.3      | ns < 15.4 | 14.1      | 15.0      | ns < 15.2 |           |
| 134     | 1609       | 14.0      | 14.4      | 15.0      | -         | 14.0      | 15.0      | 15.5      | 15.2      |
| 175     | 270.500    | 15.4      | ns < 15.4 | 15.5      | 14.0      | 15.5      | ns < 15.5 | 14.9      |           |
| 179     | 271.518    | 15.3      | -         | -         | 14.0      | 15.3      | ns < 15.3 | 15.2      | ns        |
| 184     | 272.503    | 15.5      | 13.7      | 14.9      | ns < 15.3 | 15.1      | ft        | ns        | -         |
| 214     | 291.523    | 15.0      | -         | ns < 15.3 | 14.0      | 15.2      | ns < 15.3 | 15.0      | ns        |
| 220     | 300.481    | 15.3      | ns < 15.3 | -         | 13.8      | ns < 15.3 | ns < 15.1 | 15.0      | ns        |
| 25 536  | 26 535.719 | 15.3      | 15.8      | 15.6      | 14.2      | 15.3      | ns < 15.6 | 15.1      | mb        |
| 539     | 536.608    | 14.9      | -         | -         | 13.8      | -         | -         | -         | -         |
| 541     | 539.610    | 15.1      | 14.9      | -         | 14.0      | 15.0      | ns < 15.2 | 15.0      | 15.5      |
| 543     | 539.780    | 15.2      | 16.0      | 15.8      | 14.0      | 15.4      | ns < 15.6 | 14.6      | 15.5      |
| 545     | 545.759    | 14.9      | 16.1      | 15.2      | 14.0      | 15.5      | ns < 15.8 | 15.0      | med       |
| 567     | 558.643    | 15.5      | 15.5      | 14.0      | 15.3      | ns < 15.3 | 15.1      | 14.6      | ns < 15.3 |
| 571     | 559.587    | ns < 15.0 | ?         | -         | 13.8      | -         | ns < 15.3 | 14.3      | mb        |
| 576     | 560.600    |           |           |           |           |           |           |           |           |
| 578     | 560.681    | 15.4      | ns < 15.3 | 15.3      | 14.0      | 15.4      | ns < 15.3 | 15.1      |           |
| 582     | 569.665    | 15.2      | 15.2      | -         | 14.0      | 15.2      | ns < 15.0 | ns < 15.0 | 15.2      |
| 589     | 572.580    | -         | -         | -         | 14.0      | -         | -         | 15.2      | 11.2      |
| 595     | 585.563    | 15.2      | -         | -         | 14.0      | 15.2      | -         | 15.0      | 11.1      |
| 600     | 589.592    | 14.9      | -         | -         | 13.8      | -         | -         | 15.0      | 14.3      |
| 606     | 592.576    | 15.0      | 15.4      | -         | 13.8      | 15.2      | ns < 15.0 | 15.2      | ft.       |
| 611     | 593.573    | 15.2      | 15.5      | 15.2      | 13.7      | 15.5      | ns < 15.0 | 15.3      | 15.3      |
| 614     | 594.562    |           |           |           |           |           |           |           |           |
| 619     | 595.569    | 14.9      | 15.5      | -         | 13.8      | 15.4      | ns < 15.1 | 15.3      | 15.2      |
| 626     | 597.563    |           |           |           |           |           |           |           |           |
| 633     | 603.554    |           |           |           |           |           |           |           |           |
| MA 2396 | 25 808.729 | ft.       |           |           |           |           |           |           |           |
| 2397    | .783       | ft.       |           |           |           |           |           |           |           |
| 244     | 879.       | -         |           |           |           |           |           |           |           |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
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[[13 column table]]

43 | 43 | 67 | 68 | 86 | 90 | 91 | 86 | 95 | 100 | special seq 100 | 8 | 88 |

15.2 | 15.3 | 15.4 | ns | 15.2 | ns &lt; 15.7 | 15.6 | 14.9 | 15.4 | 15.4 | 15.4:

15.4: | 15.4 | 15.0 | ns | 14.6: | ns | 15.7 | 14.9 | ? | - | 15.4: | | |  
ns < 15.6 | 15.6 | 15.2 | 15.6: | 15.2 | ns | 15.6 | 14.:[~~15.4~~] 6[[~~15.4~~]]9 | 15.4 | 15.2 | 15.3 | | |  
- | 15.7: | 15.3 | ns | 15.0 | ns | 15.6 | 15.1 | 15.3-4 | 15.4 | 15.4 | | |  
15.5: | 15.5 | 15.2 | ns | 15.3 | ns | 15.7 def | 14.9 | 15.1 br | 15.2 | 15.2 |

- | - | ? | 15.3 | - | 14.6 | ns | 15.6 | 14.6 | 15.2. br | 15.4 not ft | 15.5: 3 | |

15.5 | 15.7-8 | 15.5 | ns | 14.8 | ns | 15.5 | 14.6 | 15.5 | 15.1 | 15.1 | | |  
15.5 | 15.6: | 15.3 | 15.7:: | 14.8 | ns | 15.6 | 14.6 | 15.4 | 15.4: | 15.3 | |15.3: | 15.5: | 15.6 | - | 14.5 | ns | 15.5 | 14.7 | 15.4 | 15.3 | 15.1 | | |  
15.0 | 15.0 | 15.6 | ns | 15.2 | ns | 15.5 | 15.1 | 15.4 | 15.4 | 15.5 | | |  
ns < 15.3 | - | 15.7: | - | 15.5 | ns | - | 15.1 | - | - | 15.5: | | |  
15.3 | 15.3 | 15.4 | 15.5 br | 14.6 | ns | 15.6 | 14.8 | 15.2 | 15.2 | var max14.0 |  
15.3: | 15.2: | 15.4: | ns < 15.7 | 14.6 | ns | ? | 14.7 | - | - | | | 15.0: |  
15.5: | 15.3: | 15.5 | 15.3 | 15.0 | ns | 15.7 | 14.9 | 15.5: | 15.4 | | |14.9: |  
15.5 | 15.5 | 15.5-6 | 15.6 | 14.5 | ns | 15.7 | 14.9 | 15.2 | 15.3-4 | | |15.5: |  
15.5 | 15.6-7: | 15.3 | 15.6 | 14.6: | ns | 15.6 | 14.9 | 15.6 | 15.1: | 15.5 |  
15.1 |15.6 | - | 15.3 | ?b? | 15.8: very ft | ns | < 5.6 | ns < 15.3 | 15.3 | - | max  
15.1 |

- | - | | ns &lt; 15.4 | - | - | 15.4 | - | - | max | | 17.2: |

15.5: | - 15.2: 15.3: | - 15.6 | 15.5 | - | nx | 15.2 | 15.4 | - | | 15.2 |

- | 15.0: | ns | 14.5 | ns | ns | 14.8 | 15.3 | 15.2 | | | 15.0: |

- | 14.9 | - | 14.4 | - | - | 14.5 | 15.3: | 15.3: | | | 15.0: |

- | 14.3 | ns | 15.1: | ns | ns | 15.1 | ns &lt; 15.3 | - | | 15.2 |

- | 14.8 | ns | 15.2 | ns | ns | 15.2 | 15.3: | - | | 15.2 |

15.0 | 15.0 | 14.8 | ns? | 15.0 | ns | ns | 14.9 | 15.4 | 15.1 | | | 15.2 |

15.3 | 15.:[~~15.4~~]]5[[~~15.4~~]]3 | 14.8 | ns | 15.2 | ns | ns |

15.1 | 15.5-4? | 15.4-5 | 15.4-5 | | | 14.1 |

| | 14.7: | ns | 15.3 | ns &lt; 15.6 | ns | 14.9?? | - | | | 14.9 |

- | 14.3 | ns | 14.6: | ns | ns | 15.1 | 15.4: | 15.5 | ft | | 14.9 |

14.3 | ns &lt; 15.6 | 14.6 | ns | ns | 17.9: | - | - | | 15.1 |

14.5 | | 14.6 | ns | ns | 14.8 | 15.4 | 15.7 | | | 15.2 |

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[[11 columned table]]

| JD | JD | 86 | 90 | 91 | 86 | 95 | 101 images too big | 100 | special  
sequence 100 |  
|-----|-----|-----|-----|  
| MC 22695 | 25140. | 561 | 13.7 br | 15.7 | 15.3: [[?]] | 13.7 | 115.6 ft |  
11.3: | 15.2. 4 ft | 15.5 |  
| 22562 | 039 | 796 | 13.7 br | ns<c16.0 | ns | 14.0 | 15.6 | 12.0 | 15.4 |  
13.3: |  
| 23461 | 415 | 763 | 14.8 | ~~16.1~~ | ~~15.5~~ |  
16.1 | 14.6 | 15.5 | 11.8: | 15.2 | 15.2 |  
| 23567 | 468 | 665 | 15.2 | ns<15.6 | ns<15.6 | 14.9 | 15.5 | - | 15.4 | 15.3 |  
|  
| 24318 | 792 | 770 | 14.39 | ns<15.8 | 15.6 | 14.3: | 15.5 | 4.5: | 15.2 br |  
15.2 |  
| 24325 | 795 | 758 | 15.2 | 16.0: | 15.7 | 14.6 | 15.6 | | 15.4 | 15.2 |  
| 24948 | 26128 | 815 | 15.2 | - | 15.1 | - | - | - |  
951 | 129 | 791 | 15.3 | 15.1 | ns<15.3 | 15.1 | 15.6 | | 15.4 | 15.5 |  
953 | 130 | 801 | 15.4 ft | 15.2 | ns<15.6 | 15.1 | 15.5 | | 15.4: | dif; |  
956 | 131 | 781 | 15.5 ft | 15.2 | 15.7: | 15.0 | 15.4 | | 15.3 | 15.4: |  
973 | 144 | 744 | 14.8 | 14.6 | ns<15.2 | 14.6 | 15.5 | | - | ns< 15.4 |  
978 | 148 | 742 | 14.6 | 14.6 | ns<15.3 | 14.6 | 15.6 | | 15.3 | 15.25 |  
981 | 149 | 717 | 15.0 | 14.5 | ns<15.6 | 14.5-6 | 15.5 | | 15.4 | 15.4 |  
985 | 150 | 804 | 14.7: | 14.6 | ns<15.7 | 14.9 | 15.5 | | 15.4 | 15.4 |  
986 | 151 | 756 | 14.8 | 14.8 | 16.0 [[?]] | 14.8 | 15.3 |  
991 | 155 | 787 | 15.2 | 14.6 | ns<15.8 | 14.9 | 15.3 | | 15.2 | 15.3 |  
994 | 156 | 720 | 14.8 | 14.5 | 15.7: [[?]]t | 14.9 | 15.3-4 | | 15.4 | 15.2 |  
25000 | 162 | 731 | 15.5 | 15.2 | ns | 15.1 | 15.3 | | 15.2: | 15.1 |  
005 | 163 | 788 | 15.5 | 14.8 | ns | 15.4 | 15.5 | | 15.2: | 15.2 |  
029 | 175 | 654 | 14.8 | 14.5 | ns<15.6 | 14.7 | 15.5: | | 15.4: | 15.4 |  
060 | 202 | 589 | 15.3 | 15.3 | [[?]] | 15.7 | 14.9 | 15.3 | 15.4-5? | 15.5 |  
070 | 207 | 609 | 14.4 | 15.7: | ns | 14.6 | 15.2 | | 15.3 ft | 15.4 |  
075 | 209 | 581 | 14.5 | 15.5 | ns<15.6 | 14.8-7 | 15.4 | | 15.2 | 15.3 |  
082 | 217 | 593 | 18.5 | - | - | 14.9: | - | - | - |  
083 | 219 | 611 | 14.5: | 15.5 | 15.7 | 14.5 | 15.3: | - | - | 15.3 |  
109 | 231 | 543 | 15.3 | - | ? | 15.1 | - | - | - |  
111 | 232 | 539 | 15.6: | - | ns<15.3 | 15.4 | 15.4: | | 15.4: | - |  
112 | 235 | 526 | - | - | - | - | - | - | - |  
113 | 238 | 536 | 14.6 | ~~15.6~~ | ~~15.6~~ | ~~15.6~~ | ~~15.6~~ | ~~15.6~~ | ~~15.6~~ |  
15.6 | 15.1: | 15.2 | | 15.2 | 15.3 |  
| 118 | 239 | 540 | 14.6 | ns<15.7 | 15.0 | 15.4: | | 15.4: | 15.5: |

109

| JD    | JD    | 86   | 90      | 91              | 86              | 95              | 101             | 100             | special             |
|-------|-------|------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|
| 22695 | 25140 | 561  | 13.7    | br              | 15.7            | 15.3            | [[?]]           | 13.7            | 115.6 ft            |
| 22562 | 039   | 796  | 13.7    | br              | ns<c16.0        | ns              | 14.0            | 15.6            | 12.0   15.4   13.3: |
| 23461 | 415   | 763  | 14.8    |                 | <del>16.1</del> | <del>15.5</del> |                 |                 |                     |
| 23567 | 468   | 665  | 15.2    | ns<15.6         | ns<15.6         | 14.9            | 15.5            | -               | 15.4   15.3         |
| 24318 | 792   | 770  | 14.39   | ns<15.8         | 15.6            | 14.3:           | 15.5            | 4.5:            | 15.2 br   15.2      |
| 24325 | 795   | 758  | 15.2    | 16.0:           | 15.7            | 14.6            | 15.6            |                 | 15.4   15.2         |
| 24948 | 26128 | 815  | 15.2    | -               | 15.1            | -               | -               | -               | -                   |
| 951   | 129   | 791  | 15.3    | 15.1            | ns<15.3         | 15.1            | 15.6            |                 | 15.4   15.5         |
| 953   | 130   | 801  | 15.4 ft | 15.2            | ns<15.6         | 15.1            | 15.5            |                 | 15.4:   dif;        |
| 956   | 131   | 781  | 15.5 ft | 15.2            | 15.7:           | 15.0            | 15.4            |                 | 15.3   15.4:        |
| 973   | 144   | 744  | 14.8    | 14.6            | ns<15.2         | 14.6            | 15.5            |                 | -   ns< 15.4        |
| 978   | 148   | 742  | 14.6    | 14.6            | ns<15.3         | 14.6            | 15.6            |                 | 15.3   15.25        |
| 981   | 149   | 717  | 15.0    | 14.5            | ns<15.6         | 14.5-6          | 15.5            |                 | 15.4   15.4         |
| 985   | 150   | 804  | 14.7:   | 14.6            | ns<15.7         | 14.9            | 15.5            |                 | 15.4   15.4         |
| 986   | 151   | 756  | 14.8    | 14.8            | 16.0 [[?]]      | 14.8            | 15.3            |                 |                     |
| 991   | 155   | 787  | 15.2    | 14.6            | ns<15.8         | 14.9            | 15.3            |                 | 15.2   15.3         |
| 994   | 156   | 720  | 14.8    | 14.5            | 15.7: [[?]]t    | 14.9            | 15.3-4          |                 | 15.4   15.2         |
| 25000 | 162   | 731  | 15.5    | 15.2            | ns              | 15.1            | 15.3            |                 | 15.2:   15.1        |
| 005   | 163   | 788  | 15.5    | 14.8            | ns              | 15.4            | 15.5            |                 | 15.2:   15.2        |
| 029   | 175   | 654  | 14.8    | 14.5            | ns<15.6         | 14.7            | 15.5:           |                 | 15.4:   15.4        |
| 060   | 202   | 589  | 15.3    | 15.3            | [[?]]           | 15.7            | 14.9   15.3     | 15.4-5?         | 15.5                |
| 070   | 207   | 609  | 14.4    | 15.7:           | ns              | 14.6            | 15.2            |                 | 15.3 ft   15.4      |
| 075   | 209   | 581  | 14.5    | 15.5            | ns<15.6         | 14.8-7          | 15.4            |                 | 15.2   15.3         |
| 082   | 217   | 593  | 18.5    | -               | -               | 14.9:           | -               | -               | -                   |
| 083   | 219   | 611  | 14.5:   | 15.5            | 15.7            | 14.5            | 15.3:           | -               | -   15.3            |
| 109   | 231   | 543  | 15.3    | -               | ?   15.1        | -               | -               | -               | -                   |
| 111   | 232   | 539  | 15.6:   | -               | ns<15.3         | 15.4            | 15.4:           |                 | 15.4:   -           |
| 112   | 235   | 526  | -       | -               | -               | -               | -               | -               | -                   |
| 113   | 238   | 536  | 14.6    | <del>15.6</del> | <del>15.6</del> | <del>15.6</del> | <del>15.6</del> | <del>15.6</del> | <del>15.6</del>     |
| 15.6  | 15.1: | 15.2 |         | 15.2            | 15.3            |                 |                 |                 |                     |
| 118   | 239   | 540  | 14.6    | ns<15.7         | 15.0            | 15.4:           |                 | 15.4:           | 15.5:               |

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110

[[9 column page]]

| | 86 | 90 | 91 | 95 | 101 | 100 |  
 MF10629 | 24738 | 15,3 | 45 | ns | 15,2 | 11,0 | 15,2 | |  
 10709 | 761 | 14,6 | ns | ns | 15,2 | 11,0 | 15,2 | |  
 10885 | 791 | 14,6 | ns | ns | 15,2 | 3 | 11,0 | 15,2 | |  
 11786 | 25409 | 14,5 | 15,5 | ns | 15,3 | - | - | |  
 11873 | 417 | 14,6 | 15,7 | 15,7?? | ? | 12,0 | 15,2 | |  
 13576 | 888 | 14,6 | 15,5 | ns | 15,3 | 11,5 | overlap | |

B54172 | 26095 | 14,7-8 | ns | 15,8 | 16,4 | 12,2 | 15,1 | |  
 345 | 131 | 14,8-9 | 15,2 | ns | 15,2 | 11,8 | 15,4 | |  
 410 | 153 | 15,0 | 15,0 | ? | - | 12,0 | - | |  
 508 | 175 | 14,6 | 14,7 | ns | - | 11,6 | - | |  
 604 | 190 | 14,6 | 15,2 | ns | 15,3? | 11,5 | - | |  
 650 | 217 | | | | | | | |

I 46776 | 25472 | | | | 10,9 | | h1 |  
 46787 | 479 | | | | 11,0 | | r1 |  
 48874 | 526 | | | | 10,9 | | r0 |  
 47229 | 807 | | | | 11,8 | | h2 |  
 47247 | 820 | | | | 10,9 | | r0 |  
 48340 | 26129 | | | | 11,8 | | h2 |  
 410 | 153 | | | | 12,0 | | h0 |  
 442 | 162 | | | | 12,0 | | r2 |  
 475 | 179 | | | | 11,6 | | h4 |  
 613 | 187.618 | | | | 11,3 | | d |  
 517 | 742 | | | | 11,1 | | h3.5 |  
 524 | 188 | | | | 11,1^11.3 | | h4 |  
 533 | 189 | | | | (11,0)^11.3 | | r1 |  
 624 | 209 | | | | 11,6 | | h4.5 |  
 639 | 215 | | | | 11,7 | | h0 |  
 49836 | 572 | | | | 11,0 | | h2 |

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[[4 column table]]

|---|---|---|---|

|          |       |         |         |
|----------|-------|---------|---------|
|          |       | 38      | 84      |
| MC 25536 | 26535 | 15.2    | 14.1    |
| MC 25539 | 26536 | 15.1    | 13.7    |
| MC 25541 | 26539 | 15.2    | 14.0    |
| MC 25543 | 26539 | 15.3    | 14.1    |
| MC 25545 | 26545 | 15.1    | 14.0    |
| MC 25567 | 26558 | 15.4    | 14.1    |
| MC 25571 | 26559 | -       | 14.1:   |
| MC 25578 | 26560 | -       | 14.0:   |
| MC 25582 | 26569 | ns<15.2 | 14.0    |
| MC 25589 | 26572 | -       | 14.1    |
| MC 25595 | 26585 | ns<15.2 | 14.3:   |
| MC 25600 | 26589 | -       | 14.0    |
| MC 25606 | 26592 | ns<15.5 | 14.0    |
| MC 25611 | 26593 | ns<15.6 | 14.0    |
| MC 25614 | 26594 | ns<15.1 | 14.1    |
| MC 25619 | 26595 | ns<15.3 | 13.9-14 |
| MC 25626 | 26597 | -       | 14.1    |
| MC 25633 | 26603 | ns<15.4 | 14.0    |

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The image shows a handwritten table on a grid-lined page, likely a ledger or notebook. The page is numbered '111' in the top right corner. The table has several columns, with some entries circled in red ink. The data appears to be related to variable stars, with columns for identifiers and numerical values. The handwriting is in black ink, and the page shows signs of age and wear.

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
 30, MWF 193 #IV  
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| [[3 column table]] |       |      |
|--------------------|-------|------|
| MC^[[D]]           | 103   |      |
| 22562              | 039   |      |
| 23461              | 25415 |      |
| 23567              | 468   |      |
| 24318              | 792   |      |
| 24325              | 795   |      |
| 24948              | 26128 | d    |
| 951                | 129   | b1-c |
| 953                | 130   | b2-3 |
| 956                | 131   | b1   |
| 973                | 144   | b2   |
| 978                | 148   | b1   |
| 981                | 149   | -    |
| 985                | 150   | b1   |
| 986                | 151   | b1   |
| 991                | 155   | b2   |
| 994                | 156   | b3.5 |
| 25000              | 162   | b4   |
| 005                | 163   | c1   |
| 029                | 175   | b2.5 |
| 060                | 202   | b4   |
| 066                | 205   | b4   |
| 070                | 207   | b4   |
| 075                | 209   | b1   |
| 077                | 209   | b3   |
| 082                | 217   | b1   |
| 083                | 219   | b2   |
| 109                | 231   | b0   |
| 111                | 232   | b1   |
| 112                | 235   | b4.5 |
| 113                | 238   | c1   |
| 118                |       | b4   |
| 119                |       | b3   |

[illegible]

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113

||103  
 251|19|26239|b 3.5  
 124|242|b 3  
 128|243|b 1  
 129|243|b 4  
 133|247|-  
 134|247|-  
 175|270|b 3.5  
 179|271|b4  
 184|272|c  
 214|291|c  
 220|300|b 0  
 25 536|26 535|b 2  
 539|536|b 1  
 541|539|b 4  
 543|539|b 3.5  
 545|545|b 3  
 567|558|b 1  
 571|559|c 1  
 576|560|c  
 578|560|b 1  
 582|569|b 3  
 589|572|b 3  
 595|585|b 0  
 600|589|b 2  
 606|592|b 2.5  
 611|593|c 1  
 614|594|c 2  
 619|595|c 2  
 626|597|b 3  
 633|603|-

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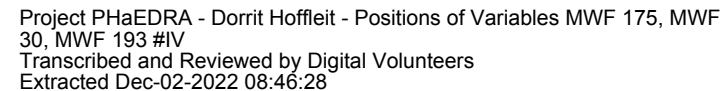
113

|      |       |      |
|------|-------|------|
| 1901 | 6.117 | 1.12 |
| 1902 | 6.1   | 1.1  |
| 1903 | 6.1   | 1.1  |
| 1904 | 6.1   | 1.1  |
| 1905 | 6.1   | 1.1  |
| 1906 | 6.1   | 1.1  |
| 1907 | 6.1   | 1.1  |
| 1908 | 6.1   | 1.1  |
| 1909 | 6.1   | 1.1  |
| 1910 | 6.1   | 1.1  |
| 1911 | 6.1   | 1.1  |
| 1912 | 6.1   | 1.1  |
| 1913 | 6.1   | 1.1  |
| 1914 | 6.1   | 1.1  |
| 1915 | 6.1   | 1.1  |
| 1916 | 6.1   | 1.1  |
| 1917 | 6.1   | 1.1  |
| 1918 | 6.1   | 1.1  |
| 1919 | 6.1   | 1.1  |
| 1920 | 6.1   | 1.1  |
| 1921 | 6.1   | 1.1  |
| 1922 | 6.1   | 1.1  |
| 1923 | 6.1   | 1.1  |
| 1924 | 6.1   | 1.1  |
| 1925 | 6.1   | 1.1  |
| 1926 | 6.1   | 1.1  |
| 1927 | 6.1   | 1.1  |
| 1928 | 6.1   | 1.1  |
| 1929 | 6.1   | 1.1  |
| 1930 | 6.1   | 1.1  |
| 1931 | 6.1   | 1.1  |
| 1932 | 6.1   | 1.1  |
| 1933 | 6.1   | 1.1  |
| 1934 | 6.1   | 1.1  |
| 1935 | 6.1   | 1.1  |
| 1936 | 6.1   | 1.1  |
| 1937 | 6.1   | 1.1  |
| 1938 | 6.1   | 1.1  |
| 1939 | 6.1   | 1.1  |
| 1940 | 6.1   | 1.1  |
| 1941 | 6.1   | 1.1  |
| 1942 | 6.1   | 1.1  |
| 1943 | 6.1   | 1.1  |
| 1944 | 6.1   | 1.1  |
| 1945 | 6.1   | 1.1  |
| 1946 | 6.1   | 1.1  |
| 1947 | 6.1   | 1.1  |
| 1948 | 6.1   | 1.1  |
| 1949 | 6.1   | 1.1  |
| 1950 | 6.1   | 1.1  |
| 1951 | 6.1   | 1.1  |
| 1952 | 6.1   | 1.1  |
| 1953 | 6.1   | 1.1  |
| 1954 | 6.1   | 1.1  |
| 1955 | 6.1   | 1.1  |
| 1956 | 6.1   | 1.1  |
| 1957 | 6.1   | 1.1  |
| 1958 | 6.1   | 1.1  |
| 1959 | 6.1   | 1.1  |
| 1960 | 6.1   | 1.1  |
| 1961 | 6.1   | 1.1  |
| 1962 | 6.1   | 1.1  |
| 1963 | 6.1   | 1.1  |
| 1964 | 6.1   | 1.1  |
| 1965 | 6.1   | 1.1  |
| 1966 | 6.1   | 1.1  |
| 1967 | 6.1   | 1.1  |
| 1968 | 6.1   | 1.1  |
| 1969 | 6.1   | 1.1  |
| 1970 | 6.1   | 1.1  |
| 1971 | 6.1   | 1.1  |
| 1972 | 6.1   | 1.1  |
| 1973 | 6.1   | 1.1  |
| 1974 | 6.1   | 1.1  |
| 1975 | 6.1   | 1.1  |
| 1976 | 6.1   | 1.1  |
| 1977 | 6.1   | 1.1  |
| 1978 | 6.1   | 1.1  |
| 1979 | 6.1   | 1.1  |
| 1980 | 6.1   | 1.1  |
| 1981 | 6.1   | 1.1  |
| 1982 | 6.1   | 1.1  |
| 1983 | 6.1   | 1.1  |
| 1984 | 6.1   | 1.1  |
| 1985 | 6.1   | 1.1  |
| 1986 | 6.1   | 1.1  |
| 1987 | 6.1   | 1.1  |
| 1988 | 6.1   | 1.1  |
| 1989 | 6.1   | 1.1  |
| 1990 | 6.1   | 1.1  |
| 1991 | 6.1   | 1.1  |
| 1992 | 6.1   | 1.1  |
| 1993 | 6.1   | 1.1  |
| 1994 | 6.1   | 1.1  |
| 1995 | 6.1   | 1.1  |
| 1996 | 6.1   | 1.1  |
| 1997 | 6.1   | 1.1  |
| 1998 | 6.1   | 1.1  |
| 1999 | 6.1   | 1.1  |
| 2000 | 6.1   | 1.1  |

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| Plate | ID |  |  |  |  |  |
|-------|----|--|--|--|--|--|
|-------|----|--|--|--|--|--|

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115

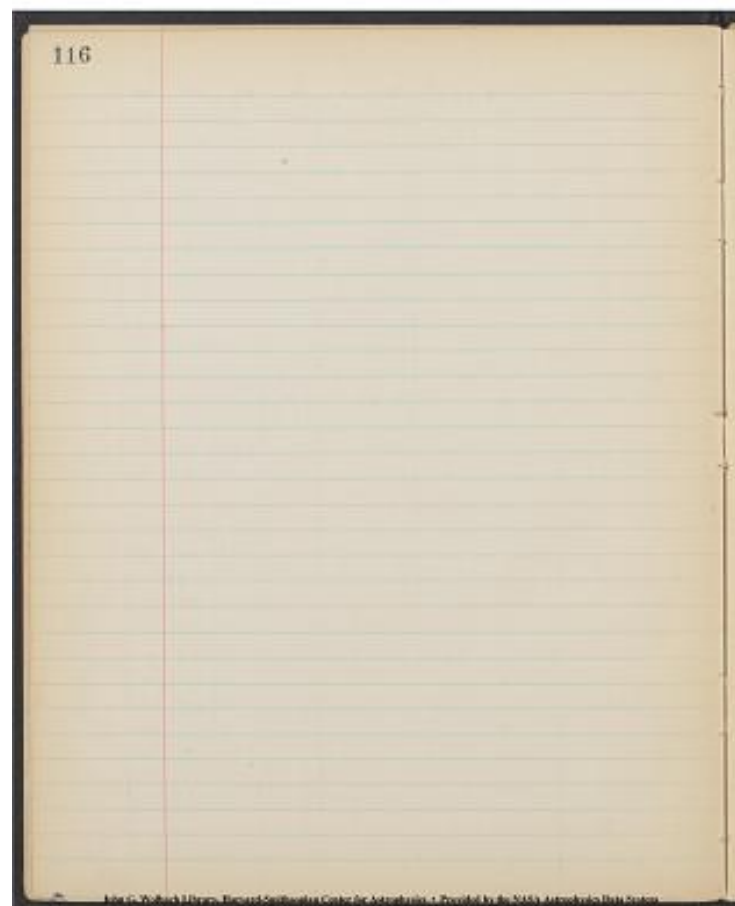
[[11 columned table]]

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

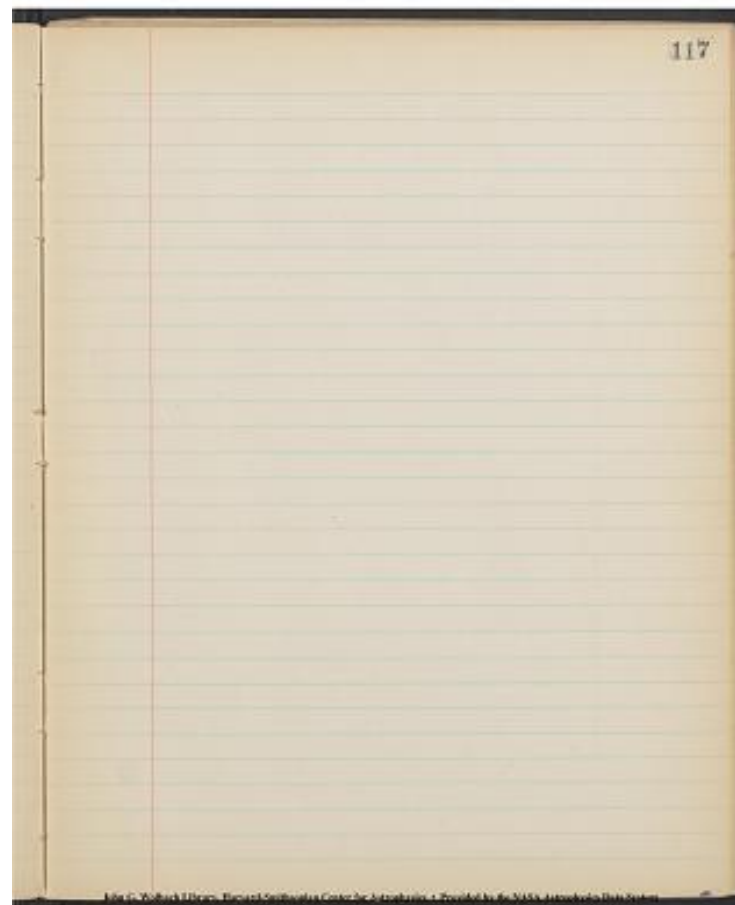
| A13576 | 24432 | | - | | 13.2: | - | ns<16.5 | 14.9 | 13.8: | - = |  
| 2132 | Oct 16 1896 | | - | ns<13.5? | - | br | - | ~~11.9~~  
| ~~11.9~~ | ~~12.7~~ | c |  
| 8463 | Cw 17807 | | 14.5 | - | | - | - | 11.9 | 12.7 | - |  
| | | ns<15. | 14.2 | 12.71 | - | - | - | b1 |

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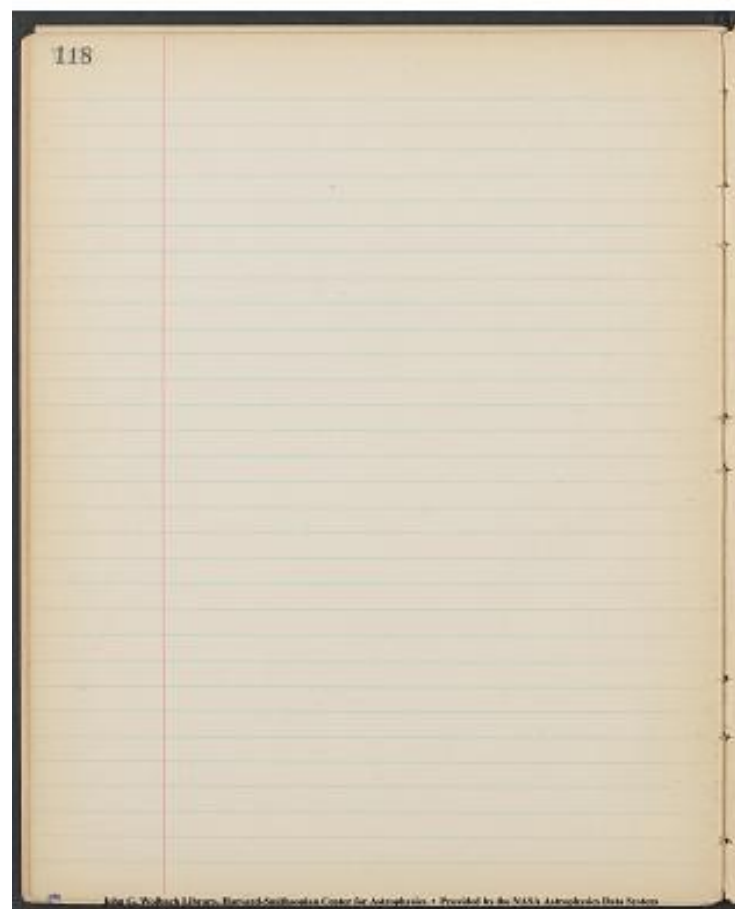
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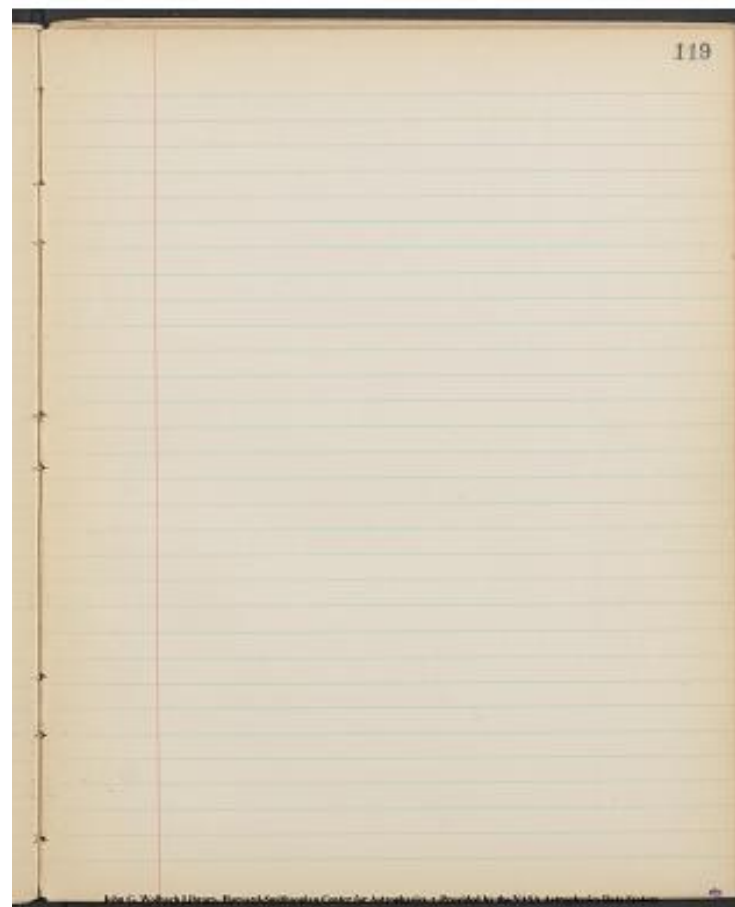
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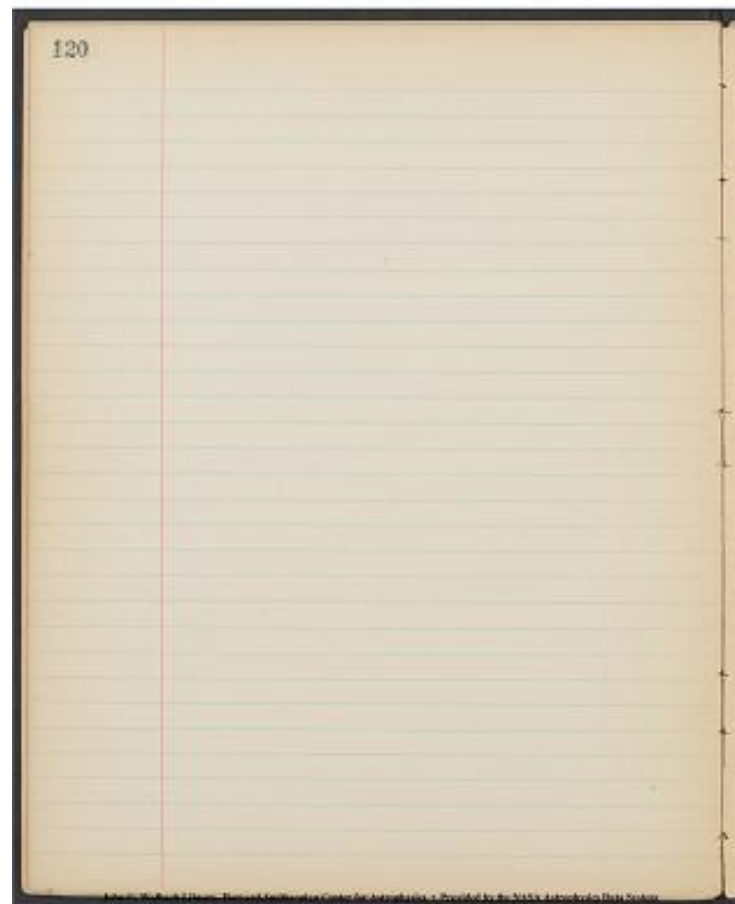
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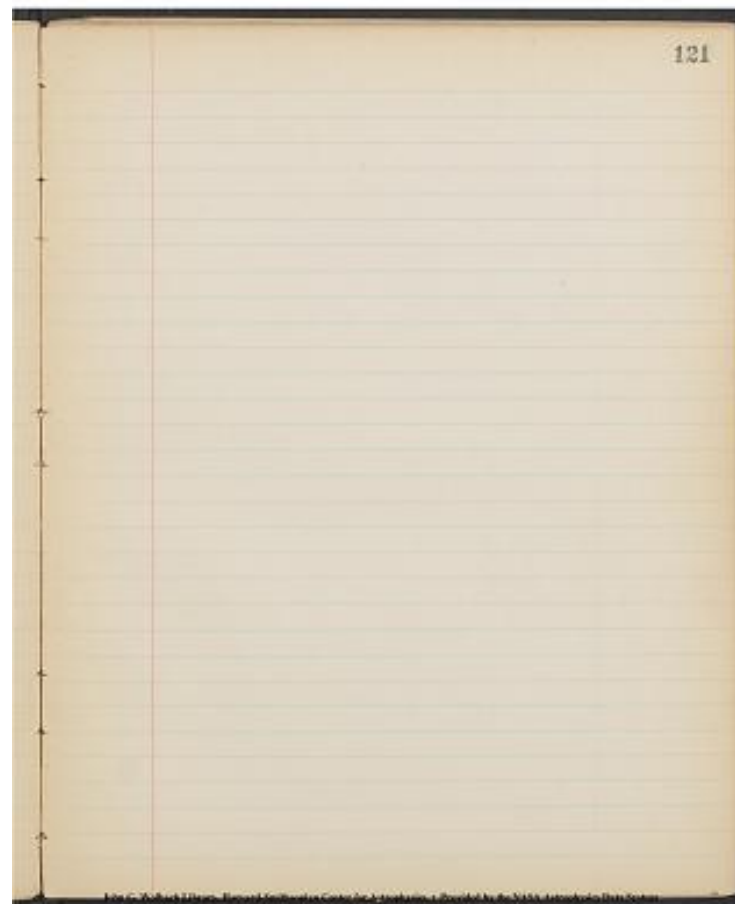
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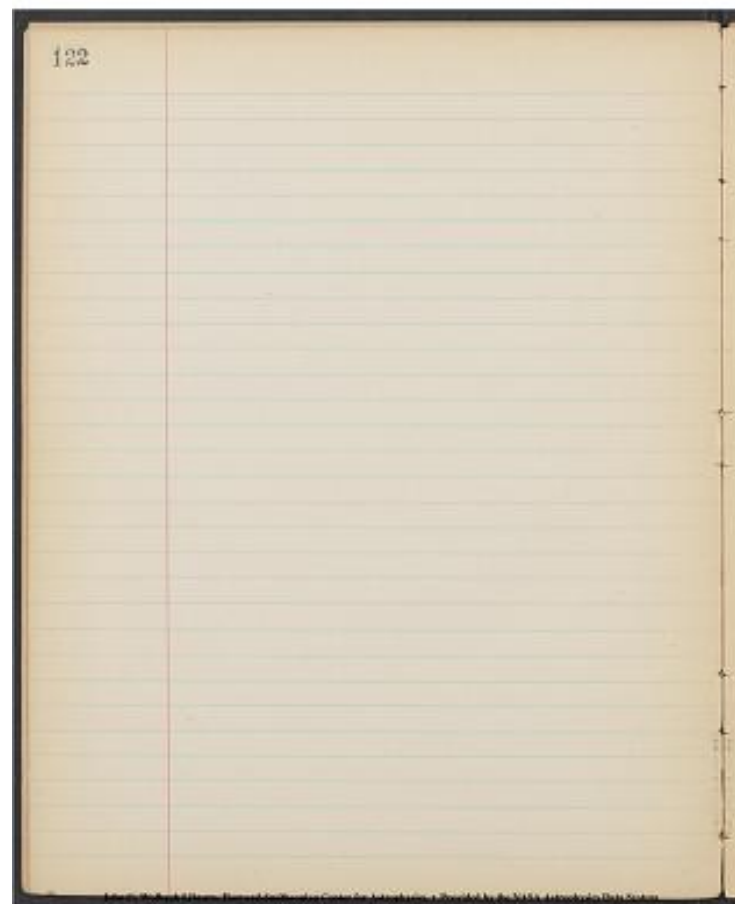
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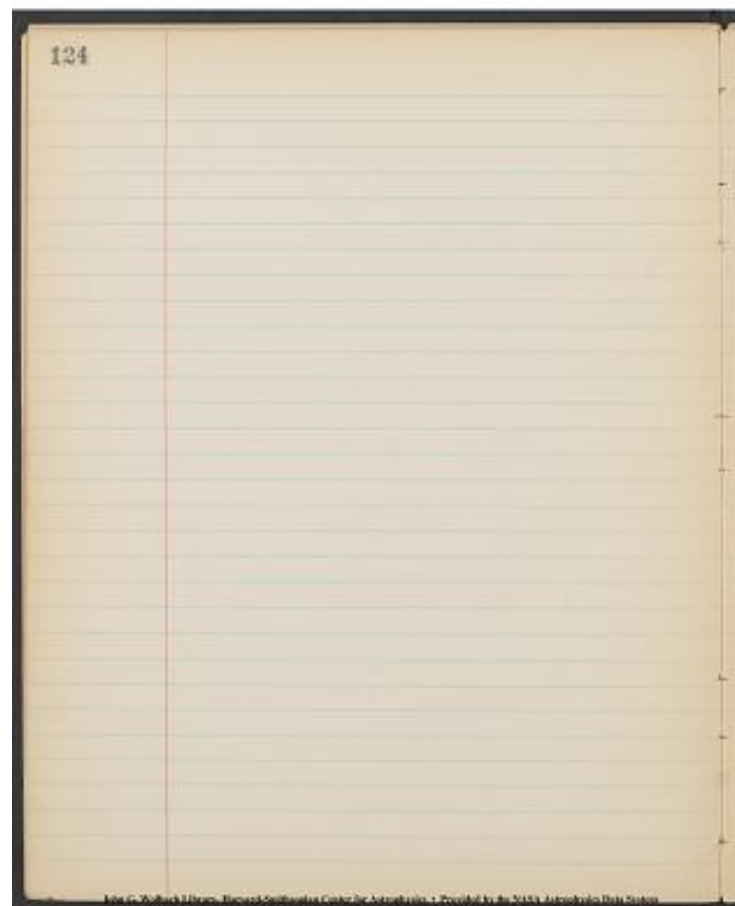


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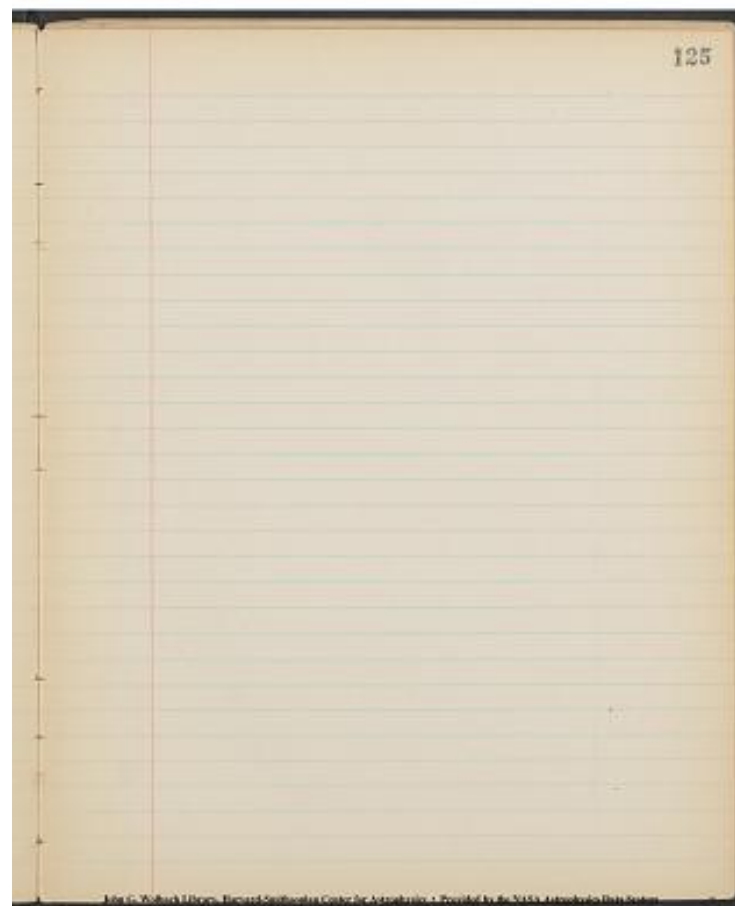




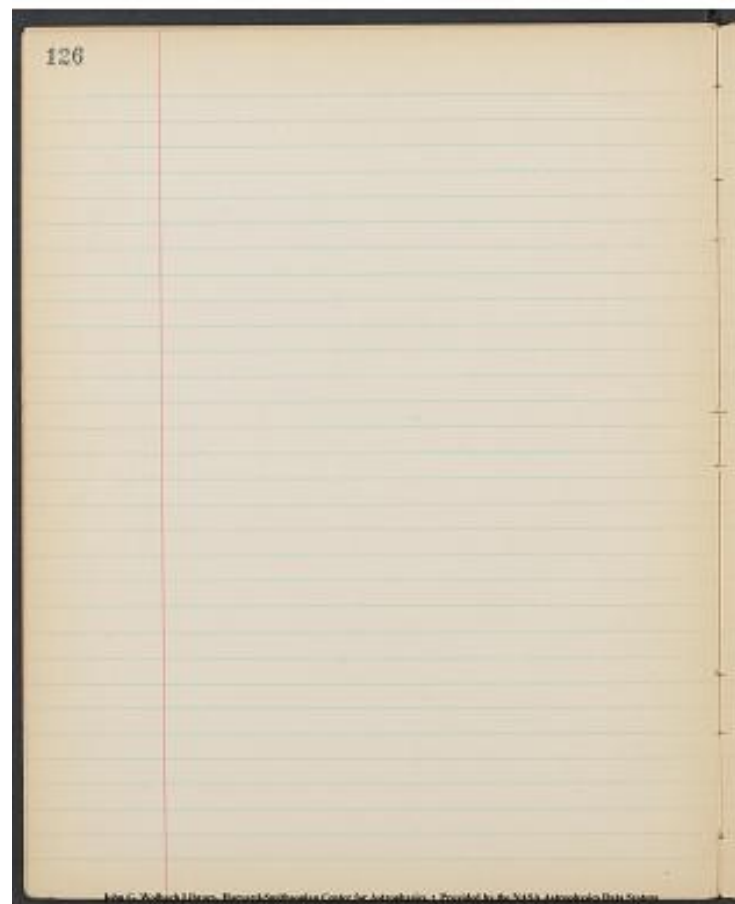
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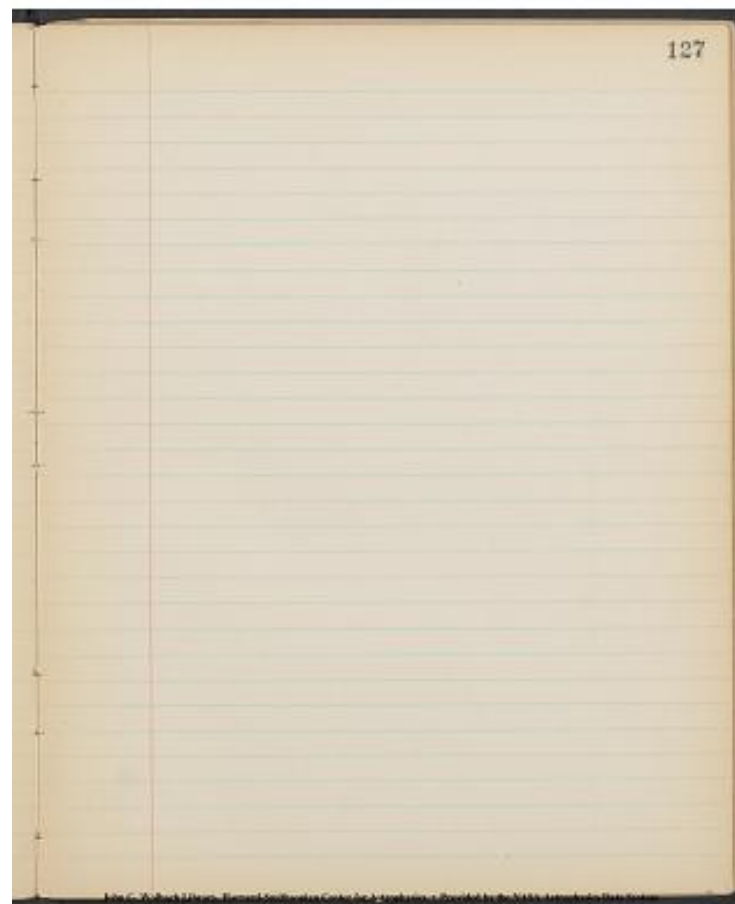
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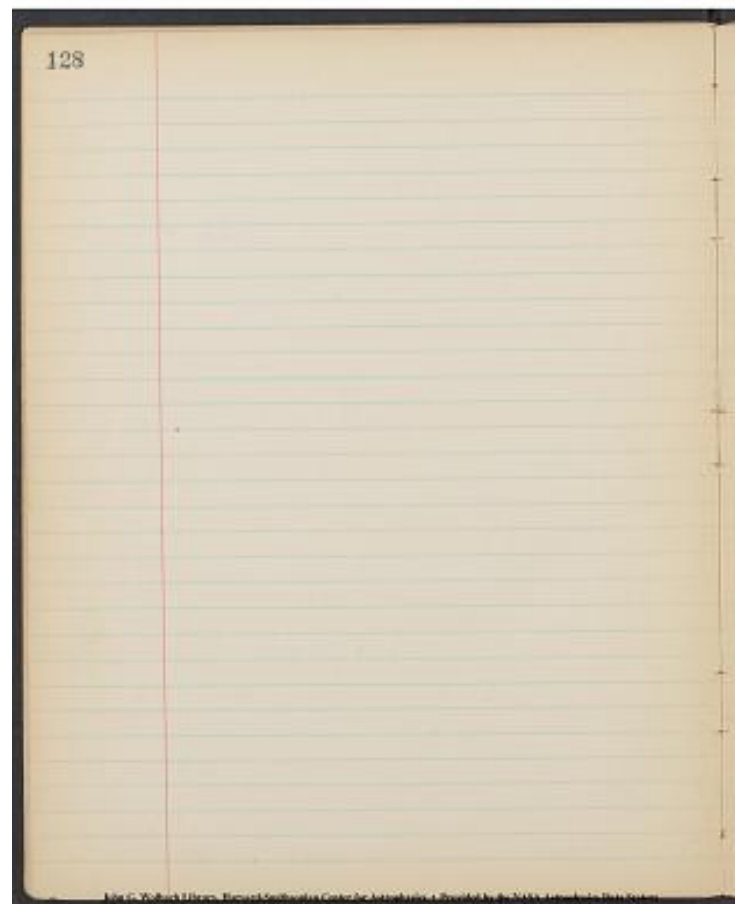
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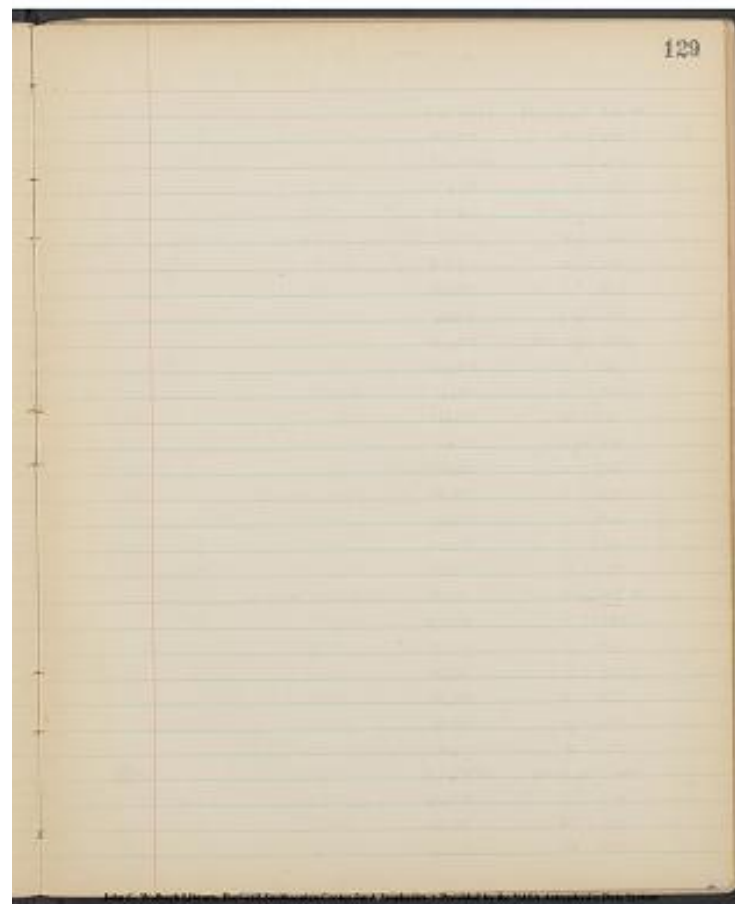
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30, MWF 193 #IV  
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130 List of Plates. M.W.F. 193.

[[4 column table]]

MP 8519|May 2, 1924|23908.862| |  
 8638|June 12|949.830| |  
 lost|8756|Aug 20|24018.604| |  
 8759|Aug 21|019.625| |  
 lost?|8766|Aug 23|021.574| |  
 -[[~~8770~~]]|[[8770]]|Aug 25  
 ~~~|023.590|[[~~8770~~]]|contact plates D20986;20987|  
 [[~~8795~~]]|8795|Sept 5|034.536|[[~~8795~~]]|  
 [[~~8796~~]]|8796|Sept 5|034.578|[[~~8796~~]]|  
 [[~~8801~~]]|8801|Sept 6|035.566|[[~~8801~~]]|  
 [[~~9550~~]]|9550|July 20, 1925 ~~~|352.694|[[~~9550~~]]| |  
 9565|July 21|353.661| |  
 9589|July 23|355.669| |  
 9597|July 25|357.669| |  
 9656|Aug 8|371.610| |  
 9663|Aug 10|373.620| |  
 [[~~9672~~]]|Lost?|[[~~9672~~]]|[[~~9672~~]]|Aug 11  
 ~~~|374.588|[[~~9672~~]]|Compared with contact MF13482 vars  
 264-279|  
 9684|Aug 13|376.600| |  
 9691|Aug 14|377.602| |  
 lost?|9722|Aug 24|387.570| |  
 -[[9740]]|[[9740]]|Sept 5|399.525|contact plate D19943|  
 9747|Sept 7|401.542| |  
 9759|Sept 8|402.554| |  
 9769|Sept 9|403.550| |  
 9779|Sept 10|404.554| |  
 9784|Sept 11|405.536| |  
 9793|Sept 12|406.567|Most of I.E.W. Variables marked on this plate|  
 11663|May 16, 1928|25383.629| |  
 -677|May 17|384.626|compared with MF13482 vars 37-51|  
 730|May 22|389.550| |  
 759|May 28|395.566| |  
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| Plate      | Date          | Magnitude | Notes                                         |
|------------|---------------|-----------|-----------------------------------------------|
| MP 8519    | May 2, 1924   | 23908.862 |                                               |
| 8638       | June 12       | 949.830   |                                               |
| lost 8756  | Aug 20        | 24018.604 |                                               |
| 8759       | Aug 21        | 019.625   |                                               |
| lost? 8766 | Aug 23        | 021.574   |                                               |
| 8770       | Aug 25        | 023.590   | contact plates D20986;20987                   |
| 8795       | Sept 5        | 034.536   |                                               |
| 8796       | Sept 5        | 034.578   |                                               |
| 8801       | Sept 6        | 035.566   |                                               |
| 9550       | July 20, 1925 | 352.694   |                                               |
| 9565       | July 21       | 353.661   |                                               |
| 9589       | July 23       | 355.669   |                                               |
| 9597       | July 25       | 357.669   |                                               |
| 9656       | Aug 8         | 371.610   |                                               |
| 9663       | Aug 10        | 373.620   |                                               |
| 9672       | Aug 11        | 374.588   | Compared with contact MF13482 vars 264-279    |
| 9684       | Aug 13        | 376.600   |                                               |
| 9691       | Aug 14        | 377.602   |                                               |
| 9722       | Aug 24        | 387.570   |                                               |
| 9740       | Sept 5        | 399.525   | contact plate D19943                          |
| 9747       | Sept 7        | 401.542   |                                               |
| 9759       | Sept 8        | 402.554   |                                               |
| 9769       | Sept 9        | 403.550   |                                               |
| 9779       | Sept 10       | 404.554   |                                               |
| 9784       | Sept 11       | 405.536   |                                               |
| 9793       | Sept 12       | 406.567   | Most of I.E.W. Variables marked on this plate |
| 11663      | May 16, 1928  | 25383.629 |                                               |
| 677        | May 17        | 384.626   | compared with MF13482 vars 37-51              |
| 730        | May 22        | 389.550   |                                               |
| 759        | May 28        | 395.566   |                                               |

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[[3 column page]]

MF11831 | June 15, 1928 | 25413.524  
 -871 | June 19 | 417.502 compared with MF12195 was 163-204  
 900 | June 21 | 419.524  
 920 | June 23 | 421.493  
 930 | June 25 | 423.482  
 12090 | July 23 | 451.401  
 191 | Aug 15 | 474.219  
 192 Aug 15 | 474.251  
 193 | Aug 15 | .282  
 194 Aug 15 | .314  
 - 195 | Aug 15 | .346 contact plate D20988-many blk, defects  
 12241 | Aug 21 | 480.222  
 242 | Aug 21 | .253 |  
 243 | Aug 21 | .285  
 - 244 | Aug 21 | .317 compared with MF9740 was 1-36 ined.  
 245 - Aug 21 | .348  
 - 13121 | May 13, 1929 | 25745.642 compared with MF.2195 was 52-79  
 135 | May 17 | 749.620  
 236 | June 12 | 775.553  
 - 289 | July 1 | 794.474 compared with MF13482 was 112-145  
 317 | July 5 | 798.461  
 349 | July 13 | 806.466  
 379 | Aug 2 | 826.335  
 390 | Aug 6 | 830.341  
 454 | Aug 26 | 850.313  
 - 482 | Aug 30 | 854.319 contact plate D20989  
 496 | Aug 31 | 855.323  
 503 | Sept 7 | 862.288  
 529 | Sept 25 | 880.243  
 533 | Sept 26 | 881.242

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| MF #     | Date          | Value     | Notes                                  |
|----------|---------------|-----------|----------------------------------------|
| MF 11831 | June 15, 1928 | 25413.524 |                                        |
| - 871    | June 19       | 417.502   | compared with MF12195 was 163-204      |
| 900      | June 21       | 419.524   |                                        |
| 920      | June 23       | 421.493   |                                        |
| 930      | June 25       | 423.482   |                                        |
| 12090    | July 23       | 451.401   |                                        |
| 191      | Aug 15        | 474.219   |                                        |
| 192      | Aug 15        | 474.251   |                                        |
| 193      | Aug 15        | .282      |                                        |
| 194      | Aug 15        | .314      |                                        |
| - 195    | Aug 15        | .346      | contact plate D20988-many blk, defects |
| 12241    | Aug 21        | 480.222   |                                        |
| 242      | Aug 21        | .253      |                                        |
| 243      | Aug 21        | .285      |                                        |
| - 244    | Aug 21        | .317      | compared with MF9740 was 1-36 ined.    |
| 245      | Aug 21        | .348      |                                        |
| - 13121  | May 13, 1929  | 25745.642 | compared with MF.2195 was 52-79        |
| 135      | May 17        | 749.620   |                                        |
| 236      | June 12       | 775.553   |                                        |
| - 289    | July 1        | 794.474   | compared with MF13482 was 112-145      |
| 317      | July 5        | 798.461   |                                        |
| 349      | July 13       | 806.466   |                                        |
| 379      | Aug 2         | 826.335   |                                        |
| 390      | Aug 6         | 830.341   |                                        |
| 454      | Aug 26        | 850.313   |                                        |
| - 482    | Aug 30        | 854.319   | contact plate D20989                   |
| 496      | Aug 31        | 855.323   |                                        |
| 503      | Sept 7        | 862.288   |                                        |
| 529      | Sept 25       | 880.243   |                                        |
| 533      | Sept 26       | 881.242   |                                        |

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132  
 MF 13562|Oct 2, 1929 25887.231| double image  
 14178|Apr 25, 1930 26092.635|  
 192| " 26 093.616|  
 206| " 28 095.641| confused with 8770 wave? 80-111  
 242| May 4 101.621|  
 248| " 5 102.635|  
 253| " 6 103.640|  
 255| " 7 104.544|  
 352| " 26 123.621|  
 387| June 2 130.596|  
 - 399| June 3 131.554| confused with 12195 wave? 205-245  
 504| " 29 157.561|  
 540| July 2 160.490|  
 548| " 3 161.548|  
 555| " 4 162.566|  
 594| " 18 176.467|  
 723| Aug 1 190.450|  
 751| " 19 208.396|  
 767| " 22 211.220|  
 768| " .251|  
 769| " .283|  
 770| " .315|  
 771| " .347|  
 772| " .379|  
 773| " .411|  
 784| " 25 214.360|  
 837| Sept. 12 232.360|  
 15557| June 8, 1931 26501.596|  
 570| " 9 502.558|  
 - 578| " 10 503.509| compared? with MF13482 vars? 146-162

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| 132   |              |              |                                      |
|-------|--------------|--------------|--------------------------------------|
| 171   | 13.547       | Oct 2, 1929  | 25887.231                            |
| 192   | 14.178       | Apr 25, 1930 | 26092.635                            |
| 192   | " 26         | 093.616      |                                      |
| 206   | " 28         | 095.641      | confused with 8770 wave? 80-111      |
| 242   | May 4        | 101.621      |                                      |
| 248   | " 5          | 102.635      |                                      |
| 253   | " 6          | 103.640      |                                      |
| 255   | " 7          | 104.544      |                                      |
| 352   | " 26         | 123.621      |                                      |
| 387   | June 2       | 130.596      |                                      |
| - 399 | June 3       | 131.554      | confused with 12195 wave? 205-245    |
| 504   | " 29         | 157.561      |                                      |
| 540   | July 2       | 160.490      |                                      |
| 548   | " 3          | 161.548      |                                      |
| 555   | " 4          | 162.566      |                                      |
| 594   | " 18         | 176.467      |                                      |
| 723   | Aug 1        | 190.450      |                                      |
| 751   | " 19         | 208.396      |                                      |
| 767   | " 22         | 211.220      |                                      |
| 768   | "            | .251         |                                      |
| 769   | "            | .283         |                                      |
| 770   | "            | .315         |                                      |
| 771   | "            | .347         |                                      |
| 772   | "            | .379         |                                      |
| 773   | "            | .411         |                                      |
| 784   | " 25         | 214.360      |                                      |
| 837   | Sept. 12     | 232.360      |                                      |
| 15557 | June 8, 1931 | 26501.596    |                                      |
| 570   | " 9          | 502.558      |                                      |
| - 578 | " 10         | 503.509      | compared? with MF13482 vars? 146-162 |

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133

[4 column table]

|                          |                |           |                                  |
|--------------------------|----------------|-----------|----------------------------------|
| MF15606                  | June 12, 1931  | 26505.576 |                                  |
| 660                      | June 19        | 512.511   | possible with 9740               |
| - 668                    | June 23        | 516.505   | compared with 12195 vars 245-263 |
| 717                      | July 17        | 540.454   |                                  |
| 16770                    | May 10, 1932   | 838.524   |                                  |
| 837                      | May 29         | 857.623   |                                  |
| 940                      | June 13        | 872.571   |                                  |
| 975                      | June 27        | 886.296   |                                  |
| 17010                    | July 3         | 892.534   |                                  |
| 202                      | Aug 3          | 923.441   |                                  |
| 376                      | Aug 30         | 950.346   |                                  |
| 422                      | Sept. 5        | 956.361   |                                  |
| New Plates recorded 1953 |                |           |                                  |
| 17876                    | March 28, 1933 | 27160.568 |                                  |
| 891                      | March 30       | 162.638   |                                  |
| <del>18112</del>         | May 26         | 219.626   | <del>Discarded</del>             |
| <del>18127</del>         | May 28         | 221.633   | <del>Discarded</del>             |
| <del>140</del>           | May 29         | 222.598   | <del>Discarded</del>             |
| 145                      | May 30         | 223.607   |                                  |
| 153                      | June 1         | 225.652   |                                  |
| 173                      | June 13        | 237.368   |                                  |
| 177                      | June 15        | 239.337   |                                  |
| 179                      | June 15        | 402       |                                  |
| 183                      | June 15        | 548       |                                  |
| 185                      | June 15        | 616       |                                  |
| 190                      | June 16        | 240.335   |                                  |
| 192                      | June 16        | 400       |                                  |
| 200                      | June 18        | 242.488   |                                  |
| 209                      | June 19        | 243.335   |                                  |
| 212                      |                | 433       |                                  |

continued p. 137

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133

|                          |                |           |                                  |
|--------------------------|----------------|-----------|----------------------------------|
| 5715 206                 | June 12, 1931  | 26505.576 |                                  |
| 660                      | " 19           | 512.511   |                                  |
| - 668                    | " 23           | 516.505   | compared with 12195 vars 245-263 |
| 717                      | July 17        | 540.454   |                                  |
| 16770                    | May 10, 1932   | 838.524   |                                  |
| 837                      | " 29           | 857.623   |                                  |
| 940                      | June 13        | 872.571   |                                  |
| 975                      | " 27           | 886.296   |                                  |
| 17010                    | July 3         | 892.534   |                                  |
| 202                      | Aug 3          | 923.441   |                                  |
| 376                      | Aug 30         | 950.346   |                                  |
| 422                      | Sept. 5        | 956.361   |                                  |
| New Plates recorded 1953 |                |           |                                  |
| 17876                    | March 28, 1933 | 27160.568 |                                  |
| 891                      | March 30       | 162.638   |                                  |
| <del>18112</del>         | May 26         | 219.626   | <del>Discarded</del>             |
| <del>18127</del>         | May 28         | 221.633   | <del>Discarded</del>             |
| <del>140</del>           | May 29         | 222.598   | <del>Discarded</del>             |
| 145                      | May 30         | 223.607   |                                  |
| 153                      | June 1         | 225.652   |                                  |
| 173                      | June 13        | 237.368   |                                  |
| 177                      | June 15        | 239.337   |                                  |
| 179                      | June 15        | 402       |                                  |
| 183                      | June 15        | 548       |                                  |
| 185                      | June 15        | 616       |                                  |
| 190                      | June 16        | 240.335   |                                  |
| 192                      | June 16        | 400       |                                  |
| 200                      | June 18        | 242.488   |                                  |
| 209                      | June 19        | 243.335   |                                  |
| 212                      |                | 433       |                                  |

continued p. 137

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134

(8X10) A-Plates

Sally Hill has plates checked

[[4 columned table]]

| A | M28 | | |  
|---|---|---|

|                 |                  |                     |        |
|-----------------|------------------|---------------------|--------|
| 3699            | July 10'99       | 14846.552           |        |
| 3800            | Aug 3            | 970.494             |        |
| 3807            | Aug 3            | .707                |        |
| 3801            | Aug 3            | .525                |        |
| 3802            | Aug 3            | .560                |        |
| 3803            | Aug 3            | .592                |        |
| 3804            | Aug 3            | .623                |        |
| 3805            | Aug 3            | .650                |        |
| 3806            | Aug 3            | .679                |        |
| <del>3807</del> | <del>Aug 3</del> | <del>.746</del>     |        |
| 3809            | Aug 3            | .780                |        |
| 12532           | July 20, 1923    | 23621.56            | 17h 24 |
| 12534           | July 20, 1923    | .693                | 19 44  |
| 12536           | July 20, 1923    | .780                | 21 50  |
| 12541           | July 21          | 622.523             | 15 42  |
| 12544           | July 21          | .654                | 18 51  |
| 12565           | Aug 3            | 635.676             | 20 15  |
| 12570           | Aug 4            | 636.590             | 18 14  |
| 12588           | Aug 15           | 647.529             | 17 30  |
| 12591           | Aug 15           | .636                | 20 04  |
| 12594           | Aug 16           | 648. <del>648</del> | 17 33  |
| 12597           | Aug 16           | .638                | 20 10  |
| 12600           | Aug 17           | 649.532             | 17 41  |
| 12603           | Aug 17           | .649                | 20 30  |
| 12605           | Aug 18           | 650.491             | 16 46  |
| 12608           | Aug 18           | .554                | 18 18  |
| 12631           | Sept 1,          | 665.579             | 22 05  |
| 12637           | Sept 2           | 665.579             | 19 53  |
| 639             | Sept 2           | .660                | 21 50  |

continued [[?]] 136

134 (8X10) A-Plates

Sally Hill has plates checked

| A               | M28              |                     |        |
|-----------------|------------------|---------------------|--------|
| 3699            | July 10'99       | 14846.552           |        |
| 3800            | Aug 3            | 970.494             |        |
| 3807            | Aug 3            | .707                |        |
| 3801            | Aug 3            | .525                |        |
| 3802            | Aug 3            | .560                |        |
| 3803            | Aug 3            | .592                |        |
| 3804            | Aug 3            | .623                |        |
| 3805            | Aug 3            | .650                |        |
| 3806            | Aug 3            | .679                |        |
| <del>3807</del> | <del>Aug 3</del> | <del>.746</del>     |        |
| 3809            | Aug 3            | .780                |        |
| 12532           | July 20, 1923    | 23621.56            | 17h 24 |
| 12534           | July 20, 1923    | .693                | 19 44  |
| 12536           | July 20, 1923    | .780                | 21 50  |
| 12541           | July 21          | 622.523             | 15 42  |
| 12544           | July 21          | .654                | 18 51  |
| 12565           | Aug 3            | 635.676             | 20 15  |
| 12570           | Aug 4            | 636.590             | 18 14  |
| 12588           | Aug 15           | 647.529             | 17 30  |
| 12591           | Aug 15           | .636                | 20 04  |
| 12594           | Aug 16           | 648. <del>648</del> | 17 33  |
| 12597           | Aug 16           | .638                | 20 10  |
| 12600           | Aug 17           | 649.532             | 17 41  |
| 12603           | Aug 17           | .649                | 20 30  |
| 12605           | Aug 18           | 650.491             | 16 46  |
| 12608           | Aug 18           | .554                | 18 18  |
| 12631           | Sept 1,          | 665.579             | 22 05  |
| 12637           | Sept 2           | 665.579             | 19 53  |
| 639             | Sept 2           | .660                | 21 50  |

Continued p. 136

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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136

A (8x10) M28

[[6 column table]]

12644|Sept 3, 1923|23666.636|21 19| |  
 655|Sept 10|673.572|20 14| |  
 657|Sept 10|652|22 10| |  
 661|Sept 11|674.563|20 04| |  
 663|Sept |.645|22 03| |  
 666|Sept 12|675.522|19 09| |  
 668|Sept |.579|20 31| |  
 670|Sept |.645|22 07| |  
 675|Sept 13|676.602|21 09| |  
 682|Sept 14|677.584|20 48|Two regions|  
 683|Sept 14|677.604|21 16| |  
 689|Sept 15|678.550|20 01| |  
 797|Oct 19|712.525|21 39|Two regions|  
 M22 (8x10)  
 [[4 column table]]

A|11894|Aug 4, 1920|22541.609|18 45|Wrong Center  
 11895|Aug 7|544.643|19 46|  
 11979|May 16, 1922|23191.675|15 03|  
 12019|June 7|213.626|15 19|  
 12061|July 2|238.505|14 02|  
 12062|July 2|.563|15 25|  
 12063|July 2|.646|17 26|  
 12064|July 2|.718|19 10|  
 12065|July 2|.804|21 14|  
 12066|July 2|.852|22 23|  
 12325|Apr 18, 1923|528.717|14 12|  
 12349|Apr 25|535.711|14 30|  
 12352|Apr 26|536.851|17 57|  
 12369|May 8|548.702|15 08|  
 12392|May 26|566.677|15 43|

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136

A (8x10)

|       |              |           |       |
|-------|--------------|-----------|-------|
| 12644 | Sept 3, 1923 | 23666.636 | 21 19 |
| 655   | Sept 10      | 673.572   | 20 14 |
| 657   | Sept 10      | 652       | 22 10 |
| 661   | Sept 11      | 674.563   | 20 04 |
| 663   | Sept         | .645      | 22 03 |
| 666   | Sept 12      | 675.522   | 19 09 |
| 668   | Sept         | .579      | 20 31 |
| 670   | Sept         | .645      | 22 07 |
| 675   | Sept 13      | 676.602   | 21 09 |
| 682   | Sept 14      | 677.584   | 20 48 |
| 683   | Sept 14      | 677.604   | 21 16 |
| 689   | Sept 15      | 678.550   | 20 01 |
| 797   | Oct 19       | 712.525   | 21 39 |

M22 (8x10)

|       |              |           |       |
|-------|--------------|-----------|-------|
| 11894 | Aug 4, 1920  | 22541.609 | 18 45 |
| 11895 | Aug 7        | 544.643   | 19 46 |
| 11979 | May 16, 1922 | 23191.675 | 15 03 |
| 12019 | June 7       | 213.626   | 15 19 |
| 12061 | July 2       | 238.505   | 14 02 |
| 12062 | July 2       | .563      | 15 25 |
| 12063 | July 2       | .646      | 17 26 |
| 12064 | July 2       | .718      | 19 10 |
| 12065 | July 2       | .804      | 21 14 |
| 12066 | July 2       | .852      | 22 23 |
| 12325 | Apr 18, 1923 | 528.717   | 14 12 |
| 12349 | Apr 25       | 535.711   | 14 30 |
| 12352 | Apr 26       | 536.851   | 17 57 |
| 12369 | May 8        | 548.702   | 15 08 |
| 12392 | May 26       | 566.677   | 15 43 |

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137

A 12439 June 15, 1923 23586.641 16 10 Contact  
 12471 22 593.687 17 44  
 12507 July 9 610.774 20 57  
 12551 30 631.632 18 55  
 12553 .695 20 26

New MF - Plates entered 1953 . Cont. from b 133.

MF 18215 June 19, 1933 2724.535

234 23 247.571  
~~248 26 250.529~~ Discarded  
 276 28 252.527  
 283 29 253.303  
 286 29 .401  
 289 29 .498  
 292 29 .597  
 297 30 254.304  
 299 30 .368  
 301 30 .433  
 303 30 .499  
 310 July 1 255.532  
 348 16 270.514  
 355 17 271.306  
 359 17 .463  
 362 18 272.257  
 364 18 .323  
 366 18 .390  
 368 18 .456  
 378 23 277.486  
 395 24 278.543

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|                                                  |               |           |       |           |
|--------------------------------------------------|---------------|-----------|-------|-----------|
| 137                                              |               |           |       |           |
| A 12439                                          | June 15, 1923 | 23586.641 | 16 10 | Contact   |
| 12471                                            | " 22          | 593.687   | 17 44 |           |
| 12507                                            | July 9        | 610.774   | 20 57 |           |
| 12551                                            | " 30          | 631.632   | 18 55 |           |
| 12553                                            | " "           | .695      | 20 26 |           |
| New MF - Plates entered 1953 . Cont. from b 133. |               |           |       |           |
| MF 18215                                         | June 19, 1933 | 2724.535  |       |           |
| 234                                              | 23            | 247.571   |       |           |
| 248                                              | 26            | 250.529   |       | Discarded |
| 276                                              | 28            | 252.527   |       |           |
| 283                                              | 29            | 253.303   |       |           |
| 286                                              | 29            | .401      |       |           |
| 289                                              | 29            | .498      |       |           |
| 292                                              | 29            | .597      |       |           |
| 297                                              | 30            | 254.304   |       |           |
| 299                                              | 30            | .368      |       |           |
| 301                                              | 30            | .433      |       |           |
| 303                                              | 30            | .499      |       |           |
| 310                                              | July 1        | 255.532   |       |           |
| 348                                              | 16            | 270.514   |       |           |
| 355                                              | 17            | 271.306   |       |           |
| 359                                              | 17            | .463      |       |           |
| 362                                              | 18            | 272.257   |       |           |
| 364                                              | 18            | .323      |       |           |
| 366                                              | 18            | .390      |       |           |
| 368                                              | 18            | .456      |       |           |
| 378                                              | 23            | 277.486   |       |           |
| 395                                              | 24            | 278.543   |       |           |

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|    |       |               |                         |
|----|-------|---------------|-------------------------|
| MF | 18411 | July 30, 1933 | 21284.496               |
|    | 644   | aug 18        | 303.359                 |
|    | 653   | 20            | 305.217                 |
|    | 666   | 21            | 306.218                 |
|    | 19378 | June 11, 1934 | 27 600.617              |
|    | 435   | 14            | 603.585                 |
|    | 448   | 17            | 606.552                 |
|    | 555   | July 12       | 631.549                 |
|    | 582   | 15            | 634.504                 |
|    | 20570 | June 10, 1935 | 27 964.5554             |
|    | 624   | 25            | 979.3856                |
|    | 639   | 26            | 980.3829                |
|    | 654   | 27            | 981.3802                |
|    | 682   | 30            | 984.3720                |
|    | 30405 | June 5, 1942  | 30516.4033 heliocentric |
|    | 38578 | July 25, 1949 | 33123.2823              |
|    | 39617 | July 8, 1951  | 33836.3333              |
|    | 18    |               | .3659                   |
|    | 19    |               | .3984                   |

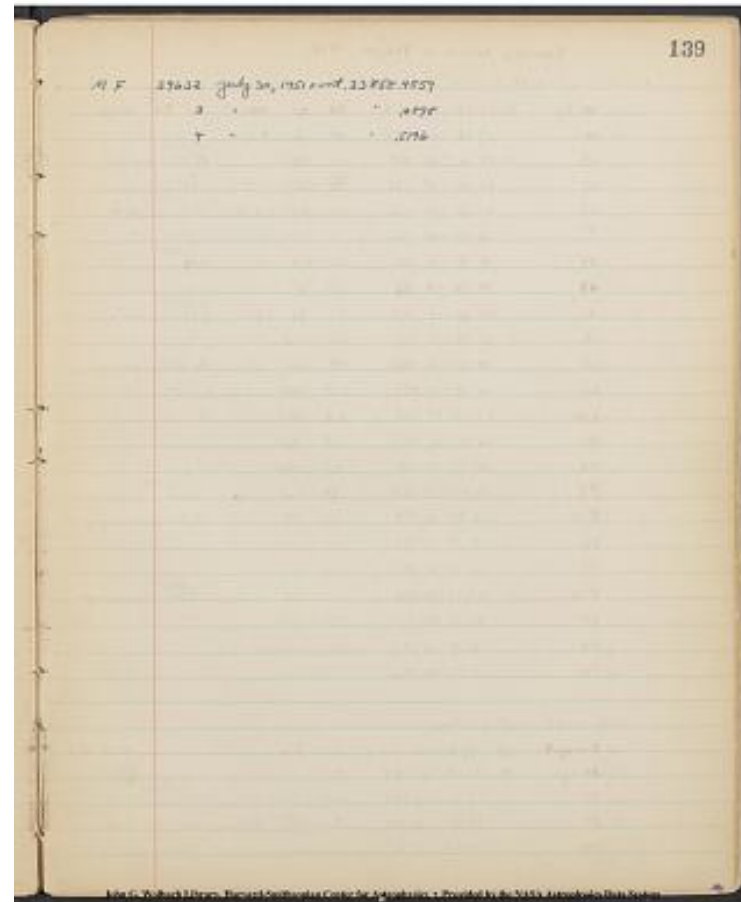
|     |       |               |                         |
|-----|-------|---------------|-------------------------|
| 138 |       |               |                         |
| MF  | 18411 | July 30, 1933 | 27 264.976              |
|     | 644   | Aug 18        | 303.359                 |
|     | 653   | 20            | 305.217                 |
|     | 666   | 21            | 306.218                 |
|     | 19378 | June 11, 1934 | 27 600.617              |
|     | 435   | 14            | 603.585                 |
|     | 448   | 17            | 606.552                 |
|     | 555   | July 12       | 631.549                 |
|     | 582   | 15            | 634.504                 |
|     | 20570 | June 10, 1935 | 27 964.5554             |
|     | 624   | 25            | 979.3856                |
|     | 639   | 26            | 980.3829                |
|     | 654   | 27            | 981.3802                |
|     | 682   | 30            | 984.3720                |
|     | 30405 | June 5, 1942  | 30516.4033 heliocentric |
|     | 38578 | July 25, 1949 | 33123.2823              |
|     | 39617 | July 8, 1951  | 33836.3333              |
|     | 18    |               | .3659                   |
|     | 19    |               | .3984                   |

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139

M F 39632 July 30, 1951 cont.33858.4559  
3 July 30, 1951 cont.33858.4978  
4 July 30, 1951 cont.33858.5196



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140

Variables listed in Prager 1931.

A-North of -23° - 1855 positions [[6 column table]]

----

|rediscovered off|VX Sgr|17 59 19 - 22 14.2|8.9 11.8|M4e|Per  
731^[[d]]^[[837^d]] Long|  
|off|AX|59 56 - 18 34.0|8.0 9.0|K5p|Type unknown|  
|MF11677|VY|18 03 26 - 20 43.8|11.9 14.0| - | 14^[[d]]|.08 ^[[13.5583]]  
Cepheid|  
|MF12244|?|A|08 02 - 21 37.2|[[strike through]]8.77[[strike through]]  
^[[12.3]]|13.5|a5:|8^[[d]]|.7736 Eclip.|  
|?|WZ|08 28 - 19 07.2|8.1 10.5|cG7| 21^[[d]].8[[strike through]]5[[strike through]]  
through]]^[[49708]] Cepheid|  
|Y|12 51 -18 55.2|6.1 7.3|G05N|5.77335 Cepheid|  
|AY|14 48 -18 385|10.5 11.3| -  
|6. [[strike through]]74[[strike through]]6[[56959]] Cepheid|  
|HS|19 22 -21 39.6|11.5 16.5| |Nova 1901|  
|u|23 21 -19 13.3|8.0 9.1|cG4v|  
|[[strike through]]6.74 569517[[strike through]]6[[6.74491]] Cepheid|  
|Z|27 52 -21 05.9|13.2 [17.0]-|Type unknown|  
|MF12244|DV|30 53 -22 48.2|10.4 11.6|A|1.862846 eclipsing|  
|MF9672|KO|31 51 -20 47.9|13.6 [16.0]-|  
|MF13121|V349|33 52 -22 07.9|13.6 [15.5]-|  
|MF11677|KS|34 15 -22 30.3|13.8 [16.5]-|  
|MF15578ft|MV|35 53 -21 05.7|12.7 [15.0]-|  
|MF11871(c12195)|YY|36 03 -19 32.2|9.4  
10.2|AO|29.6[[strike through]]3[[strike through]]284841 Eclipsing|  
|V350|36 40 -20 47.4|7.5 8.4|F5|5.15424 Eclipsing|  
|NO|38 14 -19 45.3|13.0 [15.5]-|  
|NP|38 42 -20 30.5|13.5 15.5|-|  
|V356|36 16 -20 25.6|7.1  
7.6|B9|8. [[strike through]]90[[strike through]]8965 Eclipsing|  
|NT|40 07 -22 18.7|12.7 16.5|-|  
|off|NU|40 34 -22 54.3|14.5 15.5|-|  
|off|NW|40 53 -20 14.3|13.5 15.0|-|

B - South of - 23° - 1875 positions [[7 column table]]

|off|Nova Sgr4|17|58 53 -27 26.5|10.3-[16.-]|Nova 1901|  
|off|AW Sgr|18|00 53-23 04.09|14.0-15.1| |Eclipsing?|  
|SY| |03 16 23 42.3|10.4-  
11.0|G|[[strike through]]0.67354[[strike through]]algal|  
MF 1321|AP| |05 27 23 08.7|7.5-8.3|G2n|Cephied  
5.0[[strike through]]6[[strike through]]57588|  
|?|FM| |09 41 23 40.7|8.6-[16]| |Nova No 8 1926|

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140

Variables listed in Prager 1931.

A - North of -23° - 1855 positions

| Star   | RA       | Dec      | M    | M <sub>2</sub> | Type | Notes                                           |
|--------|----------|----------|------|----------------|------|-------------------------------------------------|
| VX Sgr | 17 59 19 | -22 14.2 | 8.9  | 11.8           | M4e  | Per                                             |
| AX     | 59 56    | -18 34.0 | 8.0  | 9.0            | K5p  | Type unknown                                    |
| VY     | 18 03 26 | -20 43.8 | 11.9 | 14.0           | -    | 14^[[d]] .08 ^[[13.5583]]                       |
| AI     | 08 02    | -21 37.2 | 8.77 | 8.77           | -    | [[strike through]]                              |
| WZ     | 08 28    | -19 07.2 | 8.1  | 10.5           | cG7  | 21^[[d]].8[[strike through]]5[[strike through]] |
| Y      | 12 51    | -18 55.2 | 6.1  | 7.3            | G05N | 5.77335 Cepheid                                 |
| AY     | 14 48    | -18 385  | 10.5 | 11.3           | -    | -                                               |
| HS     | 19 22    | -21 39.6 | 11.5 | 16.5           | -    | Nova 1901                                       |
| u      | 23 21    | -19 13.3 | 8.0  | 9.1            | cG4v | -                                               |
| Z      | 27 52    | -21 05.9 | 13.2 | [17.0]         | -    | Type unknown                                    |
| DV     | 30 53    | -22 48.2 | 10.4 | 11.6           | A    | 1.862846 eclipsing                              |
| KO     | 31 51    | -20 47.9 | 13.6 | [16.0]         | -    | -                                               |
| V349   | 33 52    | -22 07.9 | 13.6 | [15.5]         | -    | -                                               |
| KS     | 34 15    | -22 30.3 | 13.8 | [16.5]         | -    | -                                               |
| MV     | 35 53    | -21 05.7 | 12.7 | [15.0]         | -    | -                                               |
| YY     | 36 03    | -19 32.2 | 9.4  | -              | -    | -                                               |
| AO     | 29.6     | -        | -    | -              | -    | -                                               |
| V350   | 36 40    | -20 47.4 | 7.5  | 8.4            | F5   | 5.15424 Eclipsing                               |
| NO     | 38 14    | -19 45.3 | 13.0 | [15.5]         | -    | -                                               |
| NP     | 38 42    | -20 30.5 | 13.5 | 15.5           | -    | -                                               |
| V356   | 36 16    | -20 25.6 | 7.1  | -              | -    | -                                               |
| B9     | 8        | -        | -    | -              | -    | -                                               |
| NT     | 40 07    | -22 18.7 | 12.7 | 16.5           | -    | -                                               |
| NU     | 40 34    | -22 54.3 | 14.5 | 15.5           | -    | -                                               |
| NW     | 40 53    | -20 14.3 | 13.5 | 15.0           | -    | -                                               |

B - South of - 23° - 1875 positions

| Star      | RA      | Dec        | M         | M <sub>2</sub> | Type | Notes          |
|-----------|---------|------------|-----------|----------------|------|----------------|
| Nova Sgr4 | 17      | 58 53      | -27 26.5  | 10.3           | -    | Nova 1901      |
| AW Sgr    | 18      | 00 53      | -23 04.09 | 14.0-15.1      | -    | Eclipsing?     |
| SY        | 03      | 16 23 42.3 | 10.4      | -              | -    | -              |
| G         | 0.67354 | -          | -         | -              | -    | -              |
| AP        | 05      | 27 23 08.7 | 7.5-8.3   | G2n            | -    | Cephied        |
| FM        | 09      | 41 23 40.7 | 8.6       | -              | -    | Nova No 8 1926 |


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141

AX H.C. 137 D.M. -18°4799, H.V. 3067

WZ DM -19°4945 ~~^~~<sup>[-19°4]</sup> ~~^~~<sup>[-19°4]</sup>, HC 137,  
HV 3072

AY AN 218, 325 - Per 69.74426 +1<sup>^</sup><sub>[d]</sub>. 1  
se'n (18.71E +321')  
HB851, H<sub>[?]</sub>4011

CDM - 22°13185, HB 825  
HB 854, HV4152  ko  
HB 838 HV 3978, AN 235, 417, 1929 Chart  
HB 854, HV 4155  
855 4168

HB 855 HV 4171  
4172

417 ~~3~~ 7

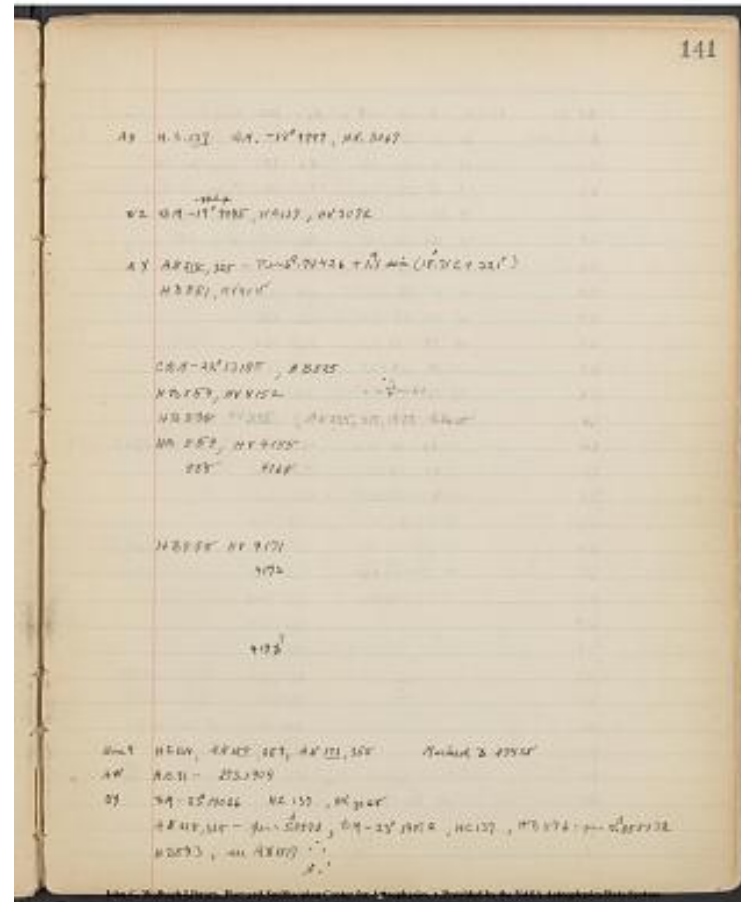
Nova 4 HC 164, AN 188, 259, AN  
191, 358 Marked B 27438

AW H.C.91 - 273.1904

SY DM - 23°14026 H.C. 137, H.V. 3068

AN 218, 325 - per = 5<sup>^</sup><sub>[d]</sub>.0570, DM - 23°14072, HC 137, HB 876 - per  
5<sup>^</sup><sub>[d]</sub>.058132

HB 843, see AX 1817 



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

142

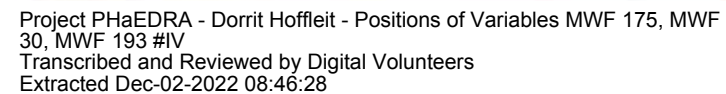
[6 columns]

|---|---|---|---|---|

[?]Gm Sgr|18|11 39-25 28.4|15.2-[17.]Long Per.  
 ?Nova SgrNo3|12 15-25 14.0|8.5-13.3|br 1899|  
 ?Gn Sgr|14 11-24 31.1|15.1-[17]Long per 275<sup>h</sup>[[d]]  
 MF 12244 |XZ Sgr|14 24-25 17.7|8.5-11.3|Eclipsing 3<sup>h</sup>[[d]].27553  
~~[[strikethrough]] 38 [[/strikethrough]] ^[[7]]~~  
 MF 12244 |GO|14 30-25 57.9|13.8-[17.0] Long 245|  
 MF 13289 var270 ?|GP|14 36-25 01.8|14.3 [17] Long 249|  
 MF 13289 ?|GQ|15 01-24 56.9|14.3 [17]Long 188|  
 MF {^[[8770]] {14206 ns |GR|15 15-25 38.2|11.4 16.6|Nova 1924|  
 MF 11667? ?|WW|15 15-27 29.0|11.5<sup>h</sup>[[12.2]] [13.<sup>h</sup>[[<16.5]]]----UG?  
 A14029 |GS|15 24-24 00.9|13.8 16.0|  
 ?|GT|15 55-24 53.3|14.5 [17.]Long 276<sup>h</sup>[[d]]  
 MF 11677 ?|GU|16 36-24 18.8|11.0 13.8| R Coronae|  
 ?|GV|17 17-26 20.6|14.4 15.6|Eclipsing|  
 var99 ?|GW|14 44-25 06.2|13.9 15.5|Eclipsing 732?  
 MF 13289 |GX|17 45-24 45.5|14.0 -16.0|  
 MF 8770(ft 12090) |GY|17 49-27 28.8|13.5 16.5|  
 A13569 |GZ|17 57-23 49.0|15.2 17.0|[[image]] G2|  
 ?|HH|18 09-25 15.6|16.0 -[17.0] Per. prob 265<sup>h</sup>[[d]]?  
~~[[strikethrough]]MF 15578?eclip[[/strikethrough]] ?|HI<sup>h</sup>[[min MF 12241]]~~  
~~18 [[strikethrough]]34-24 42.9 [[/strikethrough]] ^[[15-26 202]]13.2 14.4|~~  
 MF 11677 |HK|18 34-24 42.9|13.7 [16.0] |  
 |HL| |14.0-16.5|  
 MF 13289 |LO| |14.5[17.0] |  
 ?|HM| |13.0 [17.0]Long 280<sup>h</sup>[[d]]?  
~~[[strikethrough]]MF 11677[[/strikethrough]] ?|HN|~~  
~~|12.6[17.0]long 290|~~  
 MF 11871 ?|BS| |10.6 17|Nova 1917|  
 A 15557 ?|HO| |12.8[17]Long-prob 437<sup>h</sup>[[d]]  
 |HP| |[[image]]HP marked MF 14387|14.3[17]Long|  
 | |[[strikethrough]]RV|19 43-33 23.6|[[/strikethrough]]| |  
 MF 14399 ?|HQ| |15.6 [17]Pin 270? Long|  
 MF 11677<sup>h</sup>[[ns]] A2605<sup>h</sup>[[br]].MF 13482<sup>h</sup>[[br]]||LP 18| |14.5-  
 17|215<sup>h</sup>[[d]]

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 [bullet point] Provided by the Nasa Astrophysics Data System

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
 30, MWF 193 #IV  
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144  
 [6 columns]  
 ?off|HR Sgr|18 20 28 -28 18.9|12.8-[17.0] |  
 ?|LQ| 13.0-[16.5]|Nova 1897|  
 MF13482,15578ft|?|HT| 14.0-[17]|Long 275^[d]|  
 ||HU| 13.7-[17]|Long 258^[d]|  
 ||HV| 13.8-[17] |  
 ?|HW| 13.5-14.4|Eclipsing|  
 MF13121||HX| 14.5-16.5 |  
 ?|HY| 13.8 [17]|per. prob 339^[d]|  
 MF9672|?|HZ lower of five (N.)|13.8 16.2 |  
 MF12244||IK| 14.0 16.2|[[dureg?]] SR?|  
 ||IL 14.5-16.0  
 [[~~MF11677 ?|IM~~ Nova 18 24 06|[[~~12.1-17.0 Per 283?~~]]  
 MF13121 ||IN 13.0 14.5  
 A14029 |LS 13.7 16.5  
 MF14206 |LT 13.0 15.0  
 MF13121 ||IO 12.6 16.5  
 MF13121 |IP 13.0 [17.0  
 ||IQ 12.8 17.0  
 MF9672ft,In13482 ||IR [[image]] 13.4 15.0 Cl  
 MF12244 ||IS 13.8 [16.5  
 MF12244 |LU 13.0 [16.5  
 ||IT 14.5 16.0  
 MF13289 |LW 14.5 [17.0  
 A13569 ||IV 13.7 15.0  
 ||LX 15.0 16.5  
 ||LY 12.6 16.0  
 ||Z see | 140 13.2 [17  
 MF12244 |BT 13 16.5 Long [[image]] BT Planet !!  
 MF11871 |KL 13.5 [16.5  
 [[~~MF11871 |KL~~]]M[[~~13.5 [16.5~~]]KM 13.8 [16.5

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| Object Name       | RA        | Dec       | Notes                       |
|-------------------|-----------|-----------|-----------------------------|
| HR Sgr            | 18 20 28  | -28 18.9  | 12.8-[17.0]                 |
| Nova 1897         | 13.0      | -16.5     |                             |
| MF13482, 15578    | 14.0      | -17       | Long 275^[d]                |
| MF13121           | 13.7      | -17       | Long 258^[d]                |
| MF13121           | 13.8      | -17       |                             |
| MF13121           | 13.5-14.4 |           | Eclipsing                   |
| MF13121           | 14.5-16.5 |           |                             |
| MF13121           | 13.8      | [17]      | per. prob 339^[d]           |
| MF9672            | 13.8      | 16.2      | lower of five (N.)          |
| MF12244           | 14.0      | 16.2      | [[dureg?]] SR?              |
| MF12244           | 14.5-16.0 |           |                             |
| MF11677           | 18 24 06  | 12.1-17.0 | Per 283?                    |
| MF13121           | 13.0      | 14.5      |                             |
| A14029            | 13.7      | 16.5      |                             |
| MF14206           | 13.0      | 15.0      |                             |
| MF13121           | 12.6      | 16.5      |                             |
| MF13121           | 13.0      | [17.0]    |                             |
| MF9672ft, In13482 | 13.4      | 15.0      | Cl                          |
| MF12244           | 13.8      | [16.5]    |                             |
| MF12244           | 13.0      | [16.5]    |                             |
| MF13289           | 14.5      | [17.0]    |                             |
| A13569            | 13.7      | 15.0      |                             |
| A13569            | 15.0      | 16.5      |                             |
| A13569            | 12.6      | 16.0      |                             |
| A13569            | 140       | 13.2      | [17]                        |
| MF12244           | 13        | 16.5      | Long [[image]] BT Planet !! |
| MF11871           | 13.5      | [16.5]    |                             |
| MF11871           | 13.8      | [16.5]    |                             |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 08:46:28



145

[[3 columned table]]

---|---|---

HB 854|H.V.4134| |

HB 859|HV 4475| |

HB 852|HV 4063| |

852| 4064|[[image]] H21|

854| 4135| |

852| 4065| |

854| 4136| |

[[/strikethrough]]|838|3966|[[/strikethrough]]| |

| 4066| |

854| 4137| |

852| 3967|,HV838|

854| 4138| |

852| 4068| |

854| 4139| |

858| 4455| |

855| 4160| |

854| 4140|[[image]]IO 3969|

854| 4141| |

854| 4142| |

854| 4143|IR is br on day [[?]] July 30,1951;^[[Nearby]] Nova in

June 1932|

854| 4144| |

858| 4446|[[image]]-LT |

854| 4145|[[image]] IV |

855| 4161| |

854| 4146|[[image]] IV|

855| 4162| |

854| 4147| |

854| 4148| |

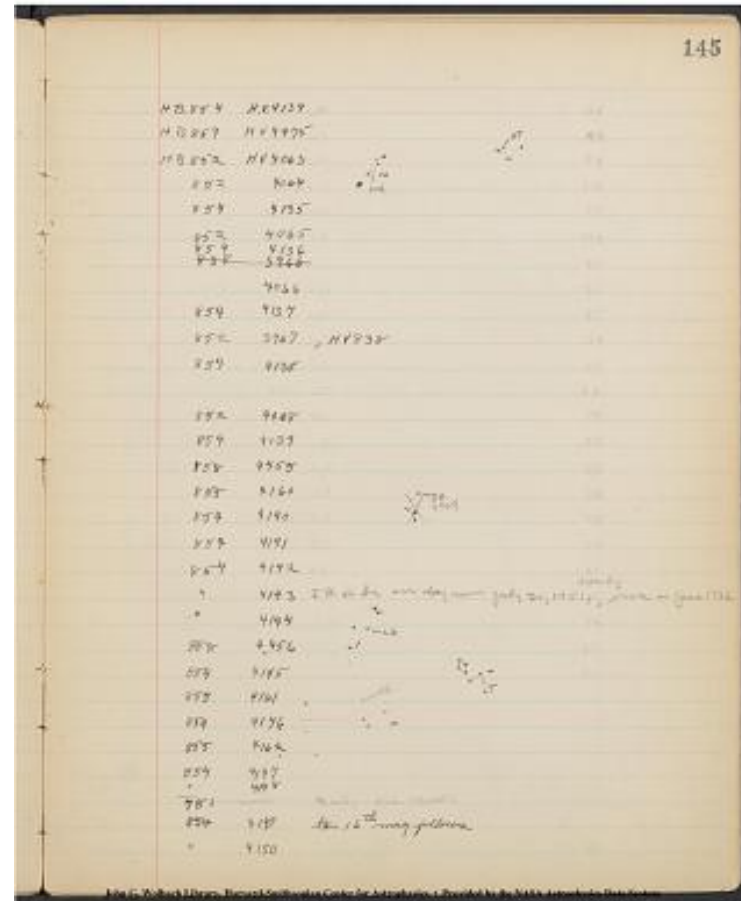
781| |Barley-near cluster |

854| 4149|star 16th mag follows|

854| 4150| |

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV

Transcribed and Reviewed by Digital Volunteers

Extracted Dec-02-2022 08:46:28

[[4 columns]]

|---|---|---|

|MF11871? ?^[[off:]]LZ| |14.0-15.5|

|MM| |13.8 [17.0|

A12062(8x10)|KN| |14.0[16.0|

MF 15578 |MN| |13.5 16.0|

off|MO| |12.5 17.0|

MF 12244 ?|348| |11.0-[16.5 ~~Long? ~~Long?~~ R~~ Cr B|

MF 12244 |MP| |13.0 15.0|

|MQ ^[[147~~Long?~~]] 3 ~~Long?~~ | 13.0 16.5 Long? |

MF 13121 |MR| |14.0-17.0|

|KP| |13.8 15.5|

MF 12244 |MS| |15.0 &lt;16.5|

|KR| |13.6 15.0|

|MT| |15.5 16.5|

|KT| |14.0 15.5|

|MU ^[[158]]| |12.3 7 380^[[d]]|

MF 12244 |KV| |13.5 15.7|

MF 13121 |MW^[[160]]|[[image]]MW|14.5 &lt;17 Per 260|

off|MY| |13.2 17.0 Per 262|

MF 13289 |MX| |13.4 &lt;16.0 M?|

|MZ| |14.0 - 15.5|

?off|NN| |14.5 16.0|

|NQ| |14.5 &lt;15.5|

|NR| |12.5 &lt;15.5|

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Transcribed and Reviewed by Digital Volunteers

Extracted Dec-02-2022 08:46:28



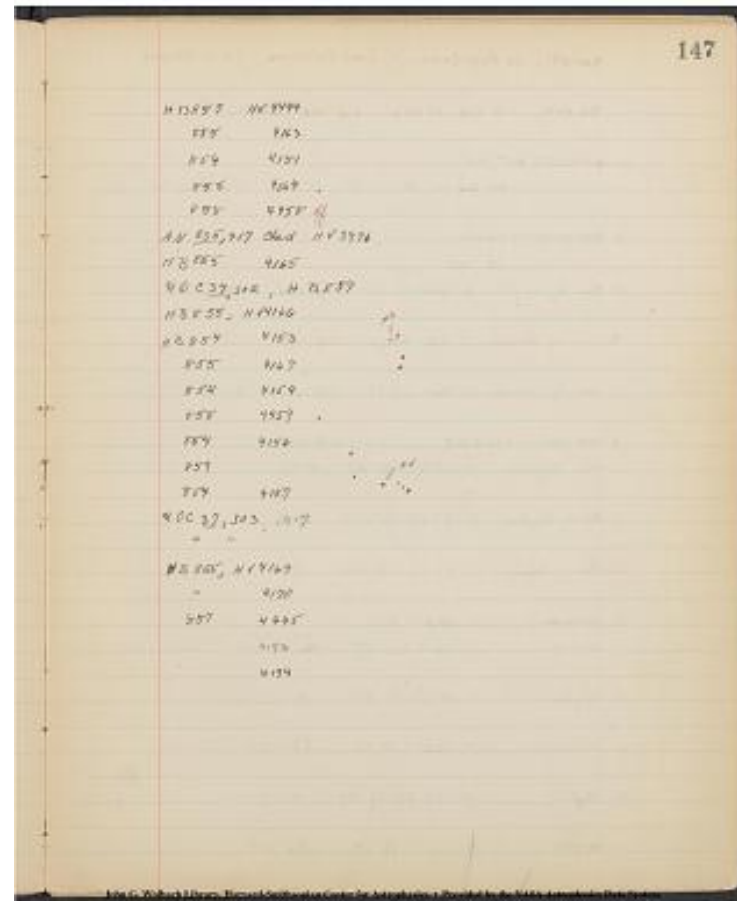
147

[[3 columned table]]

---|---|---

HB857|HV4444| |  
 855|4163| |  
 854|4151| |  
 855|4164| |  
 858|4458 off| |  
 AN235,417|Chart HV3976| |  
 HB855|4165| |  
 40C37,302,HB859| | |  
 HB855,|HV4166| |  
 HB854|4153|[[image]] MS|  
 855|4167| |  
 854|4154| |  
 858|4459| |  
 854|4156| |  
 859| | |  
 854|4157|[[image]] KV|  
 UOC37,303,1917| | |  
 UOC37,303| | |  
 HB855,HV4169| |  
 HB855|4170| |  
 857|4445| |  
 |4173| |  
 |4174| |

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 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 08:46:28

# 148 Variables in Miss Cannon's Card Catalogue - not in Trager

off - 1. 272.1904 18 02.3<sup>^</sup><sub>[[2.]]</sub><sup>^</sup><sub>[[2.0 11]]</sub> -22 57.3<sup>^</sup><sub>[[2.8]]</sub> 13.7-14.6  
Leavitt

~~[[2. Var Gent's 100m var:]]~~ <sup>^</sup><sub>[[17 59.6]]</sub>  
error in filing in Miss Cannon's Cat ~~[[18 10.6-1845 14-15~~  
Per 0.069746 ~~[[8h]]~~

~~[[3 Var. found by Innes: 18 20.3=~~

V931 - 3 Var by Innes 18 20.8<sup>^</sup><sub>[[18.1]]</sub>-28 35<sup>^</sup><sub>[[32]]</sub> 14.0<16 Per 207.5

4101<sup>^</sup><sub>[[.951 Suspect]]</sub> - 4 Var by Innes 18 21.1<sup>^</sup><sub>[[18.4]]</sub>-27 13<sup>^</sup><sub>[[10]]</sub>  
15.0-17.0 short per

-5 Var by Innes 18 21.8<sup>^</sup><sub>[[19.1]]</sub>-27 43<sup>^</sup><sub>[[40]]</sub> 13.5-17 Per 215<sup>^</sup><sub>[[d]]</sub>

6 ~~[[HV 3805=-12°5055 12.2 -13.7~~ ~~[[14-17~~  
Var Luyten 18 24<sup>^</sup><sub>[[22]]</sub> 42<sup>^</sup><sub>[[00]]</sub>-23 42.7<sup>^</sup><sub>[[39.9]]</sub> 14-17

7 Var Luyten 18 27<sup>^</sup><sub>[[25]]</sub> 02<sup>^</sup><sub>[[20]]</sub>-25<sup>^</sup><sub>[[24]]</sub> 02.2<sup>^</sup><sub>[[59.4]]</sub> 14-17

8 Var by Luyten 18 27 17-23 42.0 14-17

9 ~~[[Innes 18 28.0-2~~ ~~[[14-17~~  
v939 Innes 18 28.2<sup>^</sup><sub>[[25.5.]]</sub>-26 59<sup>^</sup><sub>[[56]]</sub> 14.0<sup>^</sup><sub>[[14.2]]</sub>-Inv.<sup>^</sup><sub>[[<17]]</sub>  
Nova 1914?

10 Luyten 18 28 37-22 32.9 14-17

~~[[off 11 Innes 18 29.5-29 13 13-14.5~~

12 Luyten 18 30 22-22 44.9 14-17

- 13 HV4005 18 30.3-23 59 14.6 <15

148 Variables in Miss Cannon's Card Catalogue - not in Trager

| Variable | Right Ascension | Declination | Magnitude | Notes         |
|----------|-----------------|-------------|-----------|---------------|
| 1        | 18 02.3         | -22 57.3    | 13.7-14.6 | Leavitt       |
| 2        | 18 20.8         | -28 35      | 14.0 < 16 | Per 207.5     |
| 3        | 18 21.1         | -27 13      | 15.0-17.0 | short per     |
| 4        | 18 21.8         | -27 43      | 13.5-17   | Per 215       |
| 5        | 18 24           | -23 42.7    | 14-17     | Var Luyten    |
| 6        | 18 27           | 02          | 02.2      | Var Luyten    |
| 7        | 18 27           | 17-23       | 42.0      | Var by Luyten |
| 8        | 18 28.2         | -26 59      | 14.0      | Innes         |
| 9        | 18 28           | 37-22       | 32.9      | Luyten        |
| 10       | 18 29.5         | -29 13      | 13-14.5   | off 11 Innes  |
| 11       | 18 30           | 22-22       | 44.9      | Luyten        |
| 12       | 18 30.3         | -23 59      | 14.6 < 15 | HV4005        |

Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

149

MC. 91

~~BANII,93,1931~~

u.O. Cir 2.0, 152; 37  
301

u.O. Cir 2.0, 152; 37  
301

uOC 20, 152, 37, 301

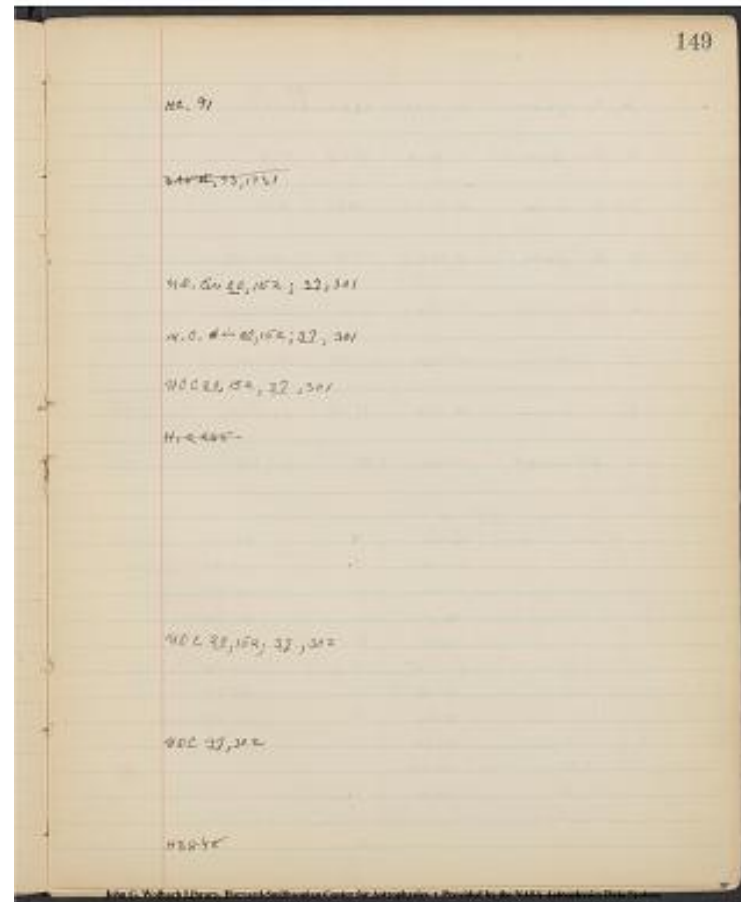
~~H.C.205~~

uOC 20, 152, 37, 302

uOC 37, 302

HB848

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

150

MF12294 V945 14 var by Innes 18 30.9<sup>^</sup>[[28.2??]] -27 47<sup>^</sup>[[44]]  
 <14<sup>^</sup>[[14.4<17<sup>^</sup>[[17]] Per 230<sup>^</sup>[[d]]

15 Var Luyten 18 31<sup>^</sup>[[28]] 11<sup>^</sup>[[29]] - 24 47.0 14-17

16 Var - Luyten 18 33<sup>^</sup>[[31]] 58<sup>^</sup>[[16]] -2405.7 14-17

V949 -17 Var - Innes 18 34.8<sup>^</sup>[[32.1]] - 28 15<sup>^</sup>[[12]] 15.5<17  
 Nova(Innes)

-18 Var - Innes 18 35.6<sup>^</sup>[[32.9]] -28<sup>^</sup>[[28]] 30<sup>^</sup>[[27]] 11.5-16.0

-19 Innes 18 36.5<sup>^</sup>[[33.8]] -25<sup>^</sup>[[25]] 22<sup>^</sup>[[19]] 12.7 <17.0

V958 -20 Innes 18 38.6<sup>^</sup>[[35.9]] - 27 22<sup>^</sup>[[8]] 13.5 17.5 Per 158<sup>^</sup>[[d]]

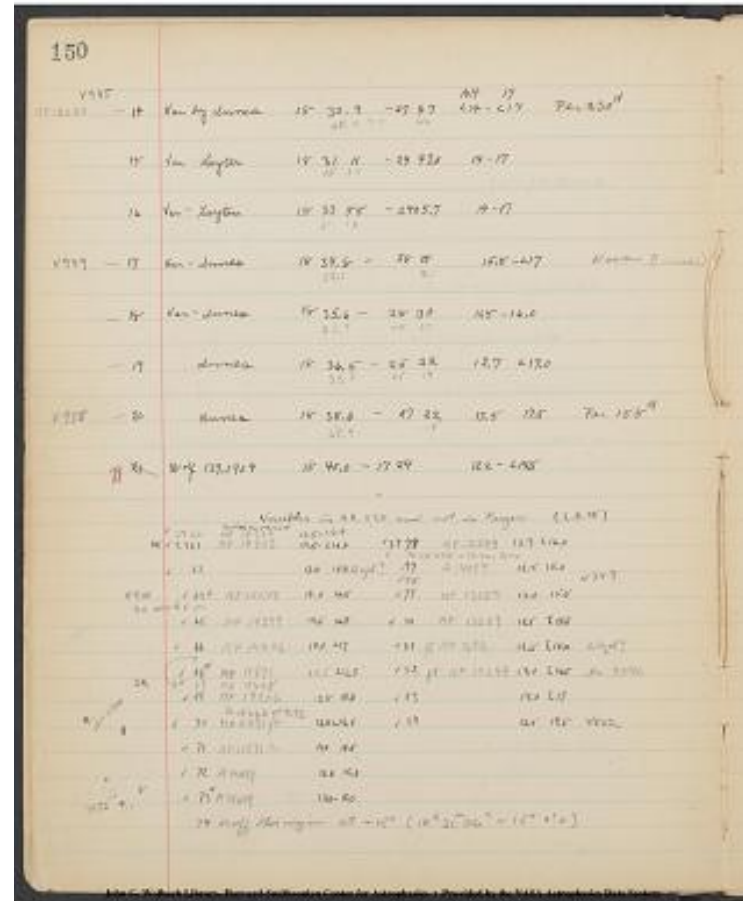
off ~~[[strikethrough]]~~ 21~~[[/strikethrough]]~~ Wolf 139.1904 18 40.0 - 17 24  
 122<145

Variables in H.B.838 and not in Prager (I.E.W)

[[7 columns]]

| | | Rediscovered | | | |

| | 3960 | MF 14399 | 12.5-16.0 | | |  
 | H.V. | 3961 | MF 14206 | 14.5<16.0 | 3975 | MF12244 | 13.7<16.0 |  
 | | | 76=348=R Cor Ber | | |  
 | 62 | 13.8 15.0 Algol? | 77 | A14029 | 12.5 15.0 |  
 | 510 | 63P | MF12244 | 14.8 16.5 | 79<sup>^</sup>[[78]] MF 13289 | 13.0  
 | 15.5<sup>^</sup>[[349]] |  
 | Go 245f 64 | | | | | |  
 | 65 | MF14399 | 14.5 16.5 | 80 | MF13289 | 12.5 [15.5 |  
 | 66 | MF14206 | 14.0<17 | 81 | ft MF9672 | 12.5 [15.0 Algol? |  
 | 68\* | MF11871 | 13.5<16.5 | 82 | ft. MF12244 | 14.0 [165 br 9740 |  
 | IK | 67 | MF15668 | | | | |  
 | 69 | MF14206 | 12.8 15.0 | 83 | 14.0[17 |  
 | [[IMAGE]] 3970 | 70 | 70 MF11871 ft<sup>^</sup>[[br 15 668 ft 9672]] | 13.8 <16.5 |  
 | 84 | 13.5 14.5 802 |  
 | 71 | MF11871 br | 14.0 15.5 | | | |  
 | 72 | A14029 | 12.8 15.0 | | | |  
 | [[IMAGE]] 73\* | A15657 | 13.0-15.0 | | | |  
 | 74 | is off region at -15° (18h 31m 06s -15° 4.0' | | | |



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Dec-02-2022 08:46:28

HV stars marked on MF print in DH print box



151

uo Cir 20, 152; 37, 302


uo Cir 20, 152; 37  
302 McL A 51, 139, 1945  
uo appears on only 3 plates of July 1914

U.O.C. 20, 152; 37  
302

U.O.C 37, 303. Closely S.f. - 25°6590

UOC 37, 303

AN 166, 43, RS Dugan var 139.1904  
3962 DHX p21 Algol 3977 P=419

3960  DH<sup>X</sup> p 21 per 290<sup>d</sup> 3961 3975. JRG Per = 240<sup>d</sup>

3962 DH X p 27 Algol 3977 P = 419

3963 DH V p. 27 = V510 (HA90) 3977 P=231 3979 P = 257<sup>d</sup>

3980 DH X 21 Per 186<sup>d</sup>.5 3966 - is big chart wrongly marked?  
390<sup>d</sup>

3967 = IK = SR? 3981 DH. X 21 Algol

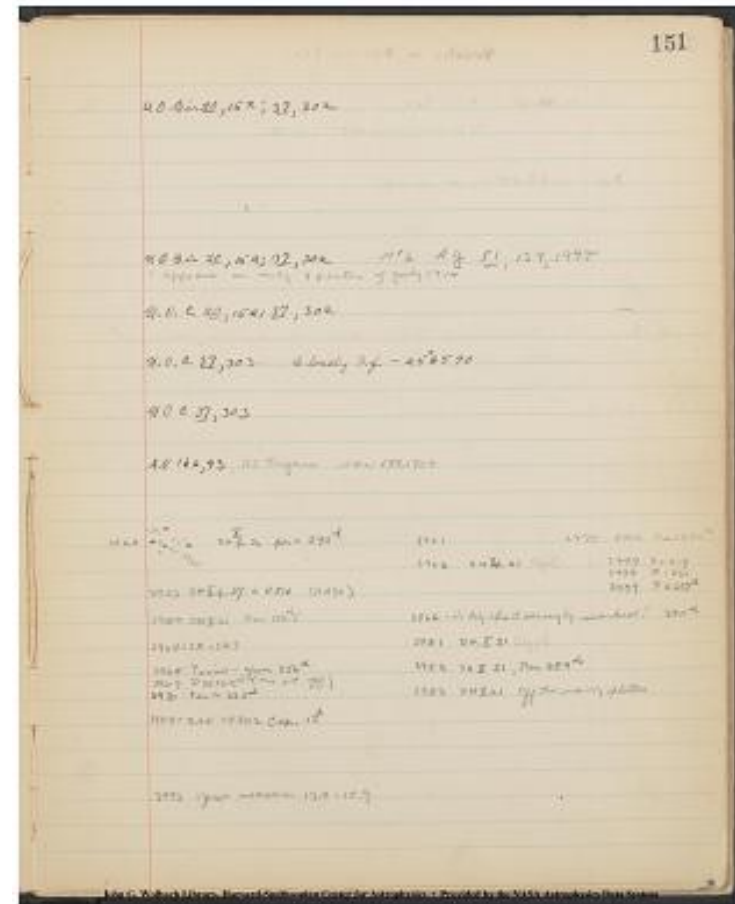
3968 Period - gean 256<sup>d</sup> 3982 DH X 21, Per 254<sup>d</sup>

3969 P 162<sup>d</sup> (one pt. off)

3970 Per ~ 325<sup>d</sup> 3983 DH X 21 off too many plates.

3984 = BAN = V802 Cep. 13<sup>d</sup>

3973 jean measures 13.4 - 15.9



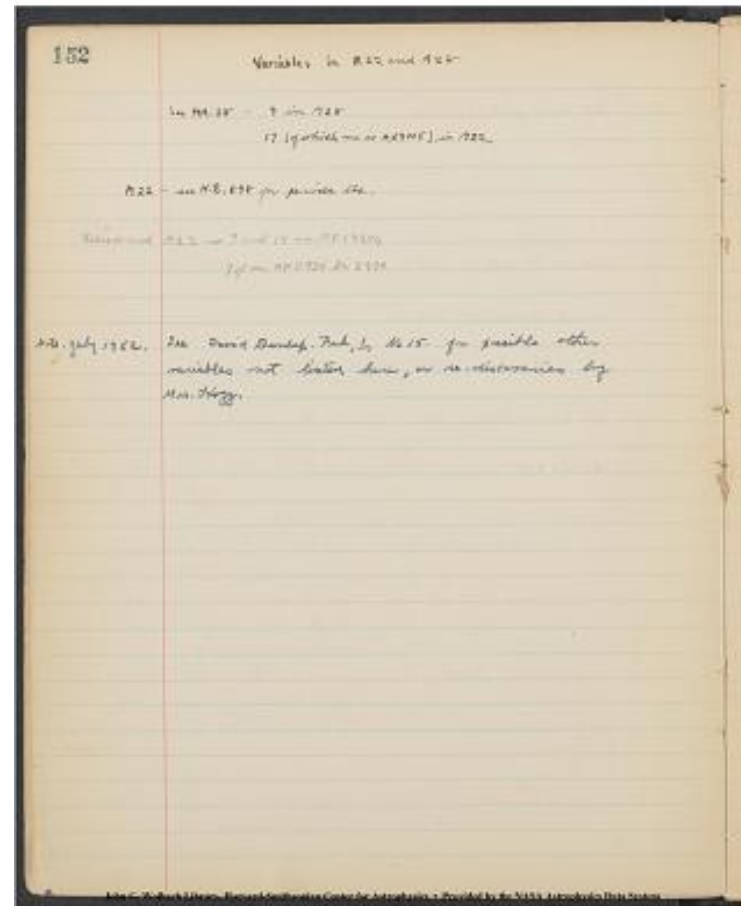
Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
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152 Variables in M22 and M28  
see H. A. 38 - 9 in M28  
17 (of which one is H.V.4005) in M22

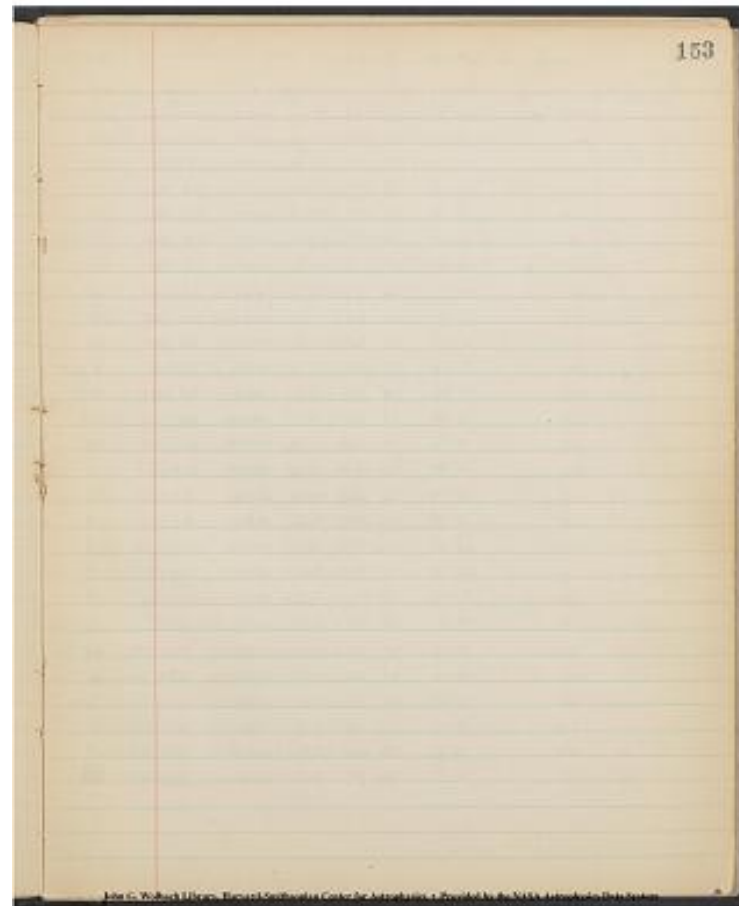
M22 - see H.B.848 for periods etc.

Rediscovered M22 no. 9 and 14 on MF14206  
7ft on MF11920 br 8770

Note. July 1952. See David Dunlap. Pub. 1,  
No. 15. for possible other variables not listed here, or re-discoveries by  
Mrs. Hogg.



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28



Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF 30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28



154

Variables in Kukarlson & Parenago 1948, not listed by Pragen 1931  
Search 18<sup>h</sup>00-18<sup>h</sup>43 -18° - -29° DH

[7 column table]

---|---|---|---|---|---|---|  
| | 1900|Prec alpha|m|Type|  
off|v737 Sr|18<sup>h</sup>00<sup>m</sup>47<sup>s</sup>|-28° 46.0'|+3.0|~~81~~ 9  
|~~81~~ 9|+0.00|~~6~~ 6|  
1|~~13.5~~ 14.3|~~9.5~~ 9.5|(13|N(1933)|  
|-|μ| 07 47 -21 05.1|+3.59|+0.011|4.01-4.15|EA|  
\*302|v506| 12 09 -25 43.7|+3.72|+0.018|13.5 (16.5|M|  
199|507| 12 18 -25 54.8|+3.72|+0.018|13.8-16.5|M|  
24|508| 13 00 -25 533|+3.72|+0.019|13.5 -16.5|M|  
-|726| 13 19 -26 55.9 ^[[chart pos. 18 11 45 -26 56.4]]+3.75|+0.019  
9.0: (16.5|N(1936)|  
\*302|506| 12 09 -25 43.7|+3.72|+0.018|13.5 (16.5|M|  
HV 3963|510| 14 14 -26 03.7|+3.72|+0.021|13.8 -16.3|M?|  
270a|511| 15 39 -25 04.1|+3.70|+0.023|13.4-16.5|M|  
271|512| 15 54 -26 06.9|+3.73|+0.023|15.4 (17.0|LP|  
[[left margin]]HV5486|[[left margin]]152|441| 15 56 -25 31.5 ^[[chart pos  
14 23 -25 32.1]]+3.71|+0.023|8.2:16|N(1930)|  
100|513| 17 42 -25 34.5|+3.71|+0.026|14.5(17.0|M|  
418|514| 18 08 -25 56.3|+3.72|+0.026|15.4-16.4|SR|  
194|515| 19 06 -25 28.9|+3.71|+0.028|14.3(17.0|M|  
151|516| 20 08 -26 01.2|+3.72|+0.029|13.8(16.5|M|  
42|517| 21 34 -26 00.0|+3.72|+0.031|13.0-17.0:M|  
193|518| 21 48 -26 21.2|+3.73|+0.032|14.0(16.3|M|  
69|519| 21 49 -26 00.1|+3.72|+0.032|13.2-17.0|M|  
299|520| 22 18 -25 51.4|+3.72|+0.032|13.3-17.0|M|  
118|521| 22 37 -26 14.2|+3.73|+0.033|14.5(16.5|M|  
[[lefthand margin]]BAN|[[lefthand margin]]-|522| 41 51 -25 28.7 ^[[chart  
40 18 -25 30.2]]+3.70|+0.061|12.9(15.3|N(1931)|  
[[lefthand margin]]m|[[lefthand margin]]off|377| 42 14 -20  
14.2|+3.56|+0.061|13.6-15.0|~~Cap~~ Cap|  
[[lefthand margin]]BAN 1 ^9|[[lefthand margin]]| 801| 42 26 -27  
08.4|+3.75|+0.062|13.9-15.0|E|  
[[lefthand margin]]130|[[lefthand margin]]|EW HV 3984|802| 42 29 -26  
15.7|+3.72|+0.062|13.4-14.6|Cep|  
[[lefthand margin]]122|[[lefthand margin]]| 803| 42 33 -27  
32.6|+3.76|+0.062|14.3-14.8|E|  
[[lefthand margin]]123|[[lefthand margin]]| 804| 42 42 -27  
55.5|+3.77|+0.062|14.2-15.0|C1|  
[[lefthand margin]]b|[[lefthand margin]]|edge|381| 42 51 -26  
23.9|+3.72|+0.062|13.3-14.9|C1|

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Project PHaEDRA - Dorrit Hoffleit - Positions of Variables MWF 175, MWF  
30, MWF 193 #IV  
Transcribed and Reviewed by Digital Volunteers  
Extracted Dec-02-2022 08:46:28

[[2 column page]]

[[~~Project~~]] Ref [[~~Project~~]] Per | Ref  
 Nova | MI, P.A. 47, 1939. AN264 O'Leary & O'Connell p 141  
 180.45 | El, Ap.j. 88, 110, 1938  
 171 | Sh, Sw, HA 90, No.5, 1934 = DH  
 218: | Sh, Sw, HA 90, No.5, 1934  
 294 | Sh, Sw, HA 90, No.5, 1934  
 Nora | ML, PA 47, 1939 HB907 Luyten-Marjall  
 171 | Sh, Sw, HA 90, No.5, 1934  
 168 | Sh, Sw, HA 90, No.5, 1934  
 158.5 | Sh, Sw, HA 90, No.5, 1934  
 196 | Sh, Sw, HA 90, No.5, 1934  
 Nova | ML, PA 47, 1939 DH. HB.890, 1932  
 223 | Sh, Sw, HA 90, No.5, 1934  
 66 | Sh, Sw, HA 90, No.5, 1934  
 246 | Sh, Sw, HA 90, No.5, 1934  
 270 | Sh, Sw, HA 90, No.5, 1934  
 290 | Sh, Sw, HA 90, No.5, 1934  
 160 | Sh, Sw, HA 90, No.5, 1934  
 177 | Sh, Sw, HA 90, No.5, 1934  
 263 | Sh, Sw, HA 90, No.5, 1934  
 225 | Sh, Sw, HA 90, No.5, 1934  
 Nova | Frw, BAN 7, 273, 1935  
 16.17076 | Mrt, BAN 6, 225, 1932  
 1.934850 | Frw, BAN 9, 362, 1943  
 13.5135 | Frw, BAN 9, 362, 1943  
 1.885874 | Frw, BAN 9, 362, 1943  
 0.5132710 | Frw, BAN 9, 362, 1943  
 0.4103325 | Frw, BAN 6, 201, 1932

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156

[6 column table]

-----

Contact MF7740 | | |Br|Ft|South up| |

with MF 12244 | | | | |

Asteroid|1|1244,12243|8740 9747|[[image]]-2|nearly as br as  
[[u]]a[[/u]] at max|

|2|12244,12245|9740,9747,12243|2-[[image]]| |

Asteroid|3|12244,12245|9740 9747|[[image]]-3| |

|4|1224,12245|9740 9747|[[image]]-4| |

Asteroid?|5|12244,12245|9740 9747|[[image]]-5| |

|6|12244,12245|9740 9747|[[image]]-6|

|7|12244,12243|9740 9747|[[image]]-7|

|8|12244,12245|9740 9747|8-[[image]]|

|9|12244,12245|9740 9747|[[image]]-9|

|10|9740 9747|12244 12243|[[image]]-10|bright stars only|

|11|12244 12243|9740 9747|[[image]]-11|

|12|12244 12243|9740 9747|[[image]]-12(ft)| |

|13|12244 12243|9740 9747|[[image]]-13|

|14|12244,12243,9747|9740,12245|[[image]]-14|14 small range|

|15|12244 12243|9740 9747|[[image]]-15|15 small range|

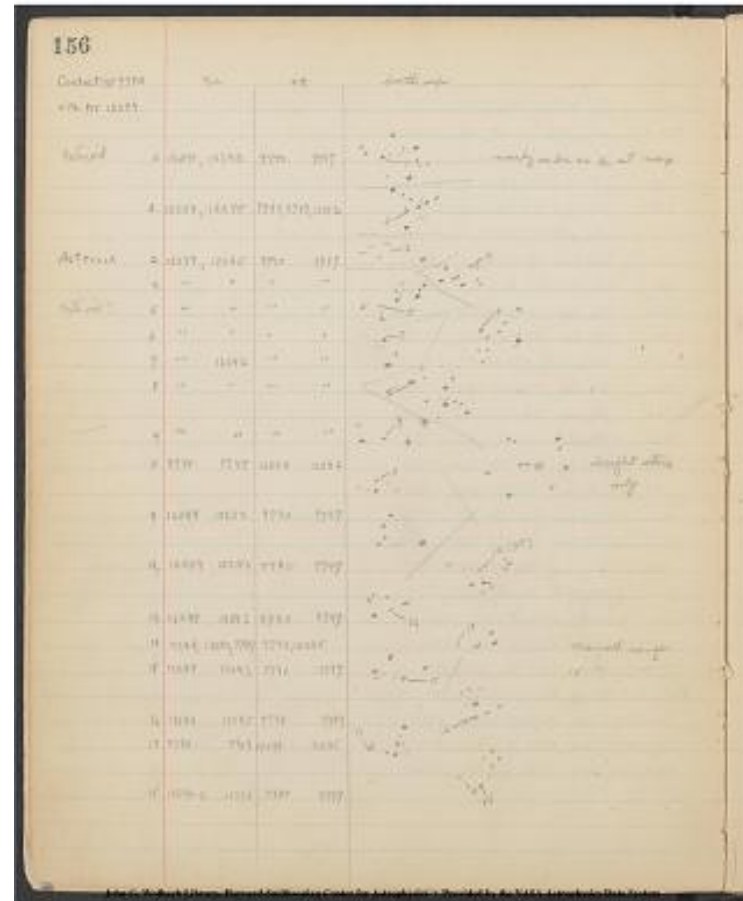
|16|12244 12245|9740 9747|16-[[image]]|

|17|9740 9747|12244 12246|17-[[image]]|

|18|12244-5 12243|9740 9747|[[image]]-18| |

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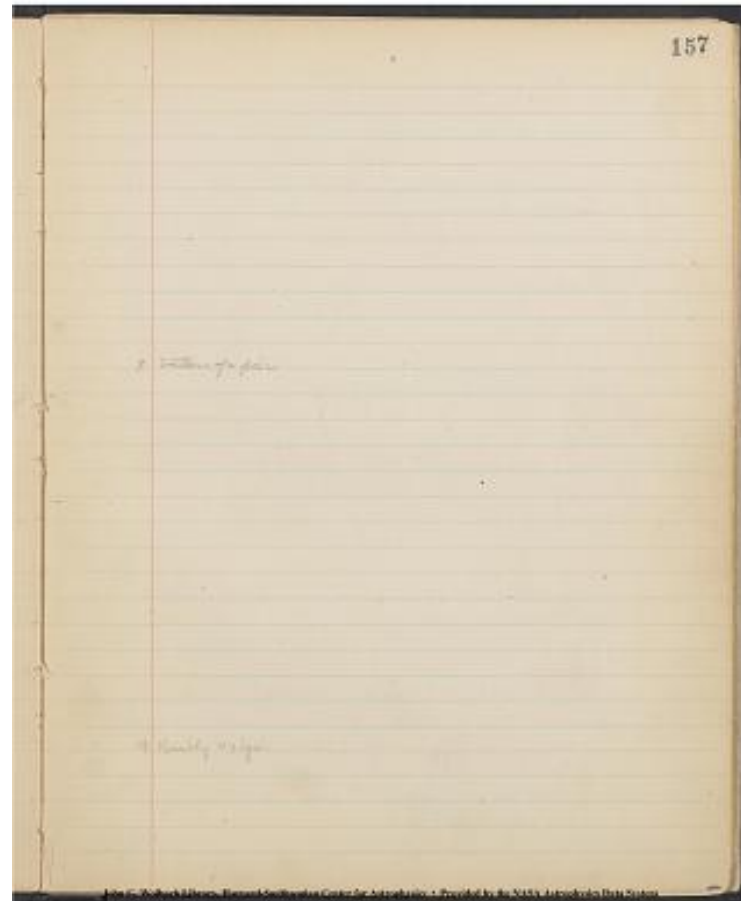
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157

7. Southern of a pair

17. Possibly HY Sgr.

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Extracted Dec-02-2022 08:46:28

158

[4 column table]

---|---|---|---

MF 12244 etd| |brft|South Up|

|19|12244-5,12243|9740 9747|[[image]]-19|

Asteroid|20|12244-5,12243|9740 9747|[[image]]-20|

|21|12244-5,12243|9740 9747|[[image]]-21|

|22|12244,5,9747|9740 11759|[[image]]-22|22-eclipsing

|23|12244,12243|9740,9747|[[image]]-23|

|24|12244,12243|9740,9747|[[image]]-24|

|25|12244,12243|9740,9747|[[image]]-25|

|26|9740 9747|12244 12243|[[image]]-26|

|27|12244,12243|9740 9747|[[image]]-27|

|28|9740 9691|12244,12243,9747|[[image]]-28|

|29|9740 9747|12244,12243,9747|[[image]]-29|

|30|12244,12243|9740 9747|[[image]]-30|

|31|12244 -5,|9740 9747|[[image]]-31|

|32|12244 12245|9740,12243,9747|[[image]]-32|small range

|33|9740 9747|12244,12243|[[image]]-33|

|34|9740 9747|12244,12243|[[image]]-34 bright|

|35|9740 9747|12244,12243|very small range|[[image]]-35|

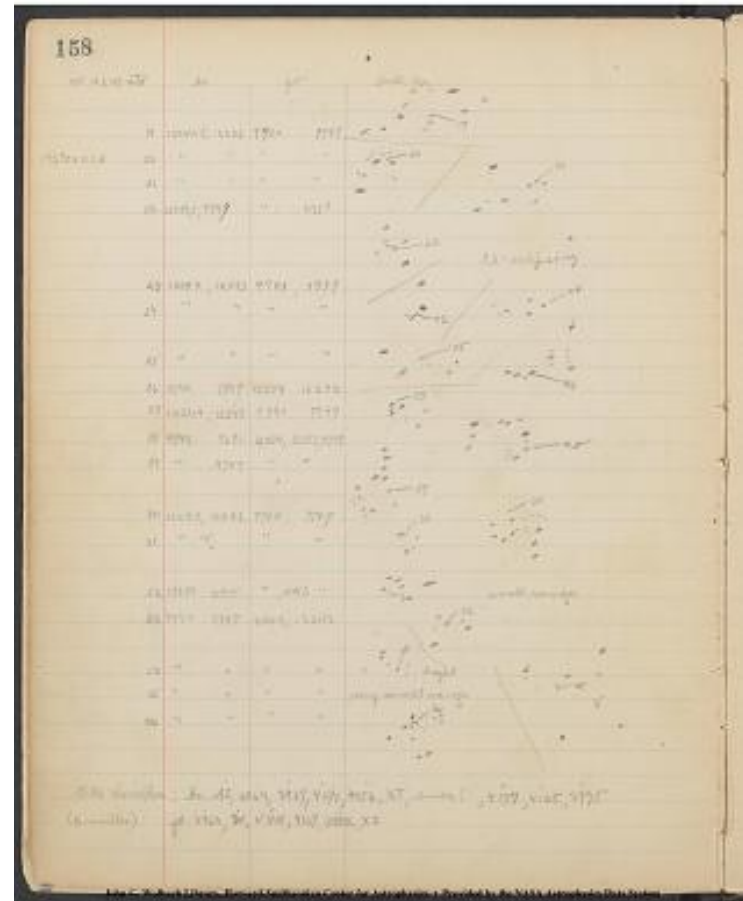
|36|9740 9747|12244,12243|[[image]]|[[arrow pointing down]]-36|

Old Variables: br. Al, 3964, 3967, 4144, 4456, BT, dunes?, 4157, 4165, 3975

(16 variables) ft. 3963, Dv, V348, 4167, 3982, XZ

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159

19 marked on A 15657 ~~[[image 19]]~~  
~~[[/strikethrough]]~~<sup>[[no! vjd]]</sup> clearest on A14029

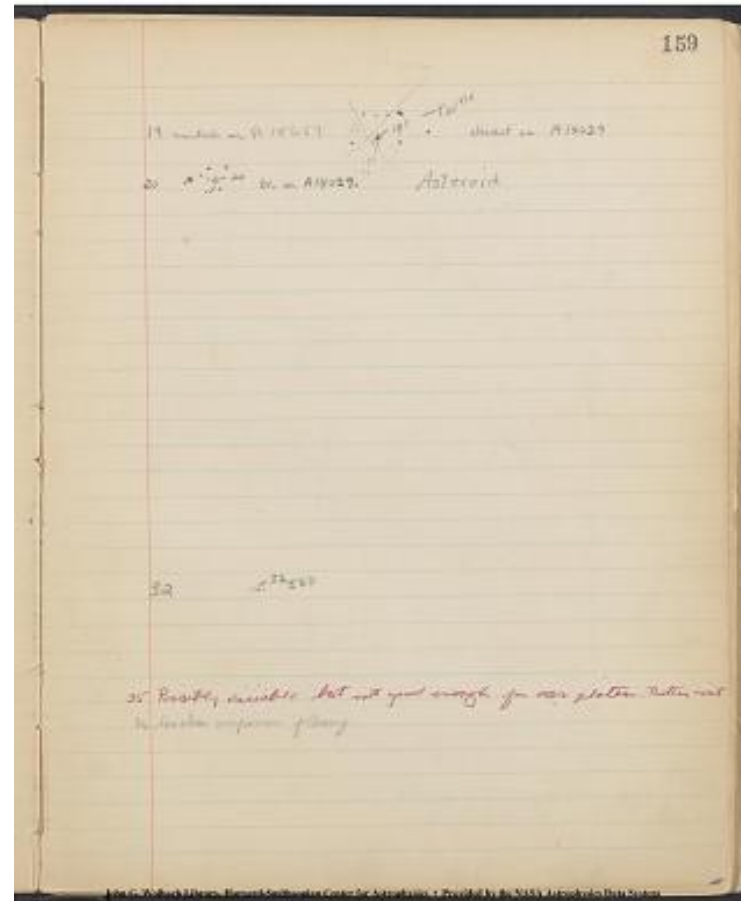
20 ~~[[image 20]]~~ br. on A14029. Asteroid

32 ~~[[image 32]]~~ JED

35 Possibly variable but not good enough for our plates. Better omit

36 has close companion following

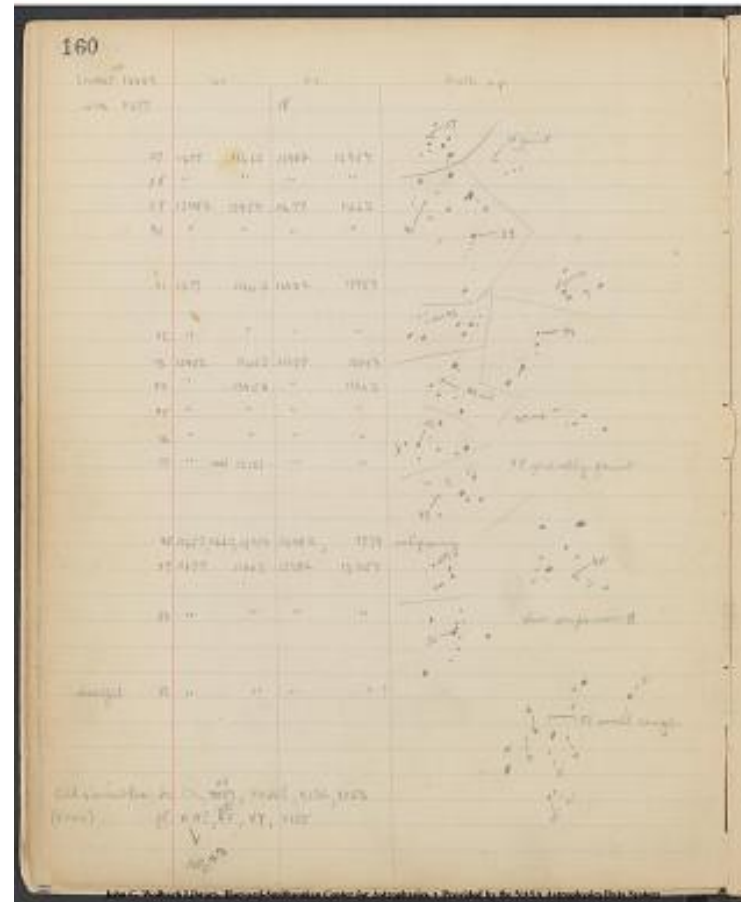
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160  
 [4 column table]  
 [---|---|---|---]  
 Contact MF13482| |br|Ft|South up|  
 with 11677| |18| |  
 37|11677 11663|13482 13454|[image]]-37|  
 38|11677 11663|13482 13454|[image]]-38 faint|  
 39|13482 13454|11677 11663|[image]]-39|  
 40|13482 13454|11677 11663|40-[image]]|  
 41|11677 11663|13482 13454|[image]]-41|  
 42|11677 11663|13482 13454|[image]]-42|  
 43|13482 11663|11677 13454|[image]]-43|  
 44|13482 13454|11677 11663|[image]]-44 red|  
 45|13482 13454|11677 11663|45-[image]]|  
 46|13482 13454|11677 11663|[image]]-46|  
 47|13482 med13121|11677 11663|47-[image]]|47 generally faint|  
 48|11677, 11663, 13454|13482, 9779|eclipsing|[image]]-48|  
 49|11677 11663|13482 13454|[image]]-49|  
 50|11677 11663|13482 13454|50-[image]]|close companion 8|  
 doubtful|51|11677 11663|13482 13454?|[image]]-C -B -b^1 -c^1 -D -A -  
 51 small range -K|  
 Old Variables br. ^[[hn]]4059, 4068?, 4132, 4053  
 (8 vars) [[underlined]]ft. [[/underlined]]WW?[[arrow pointing  
 down]], ^[[18]]4P, VY, 4155  
 mis is # 71  
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161

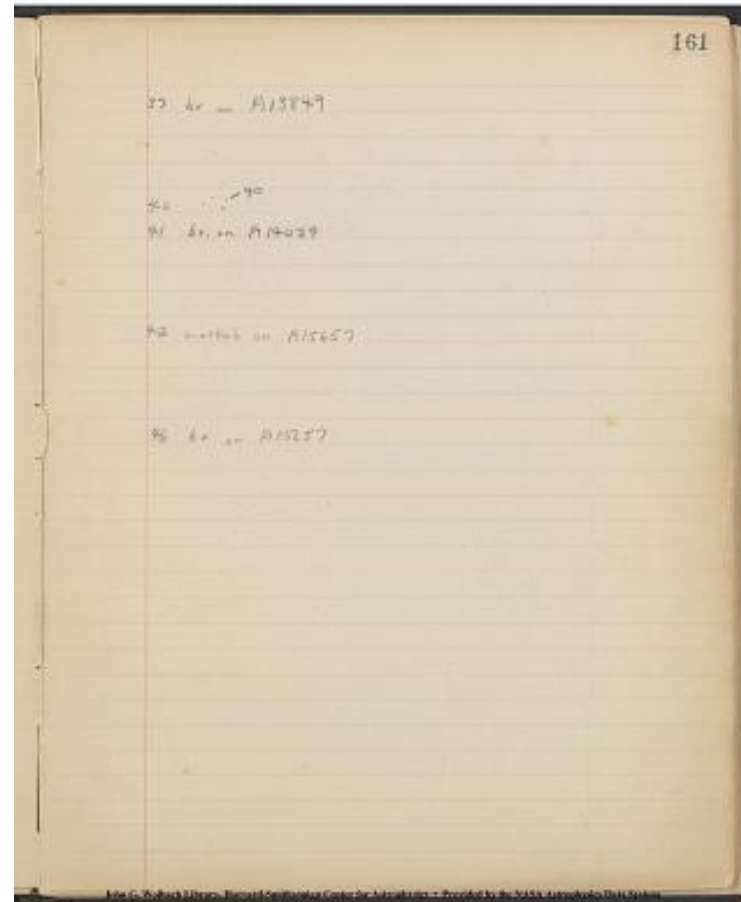
37 br on A13849

40  40  
41 br. on A14029

42 marked on A15657

46 br on A15657

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30, MWF 193 #IV  
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163

[[note paper attached]]

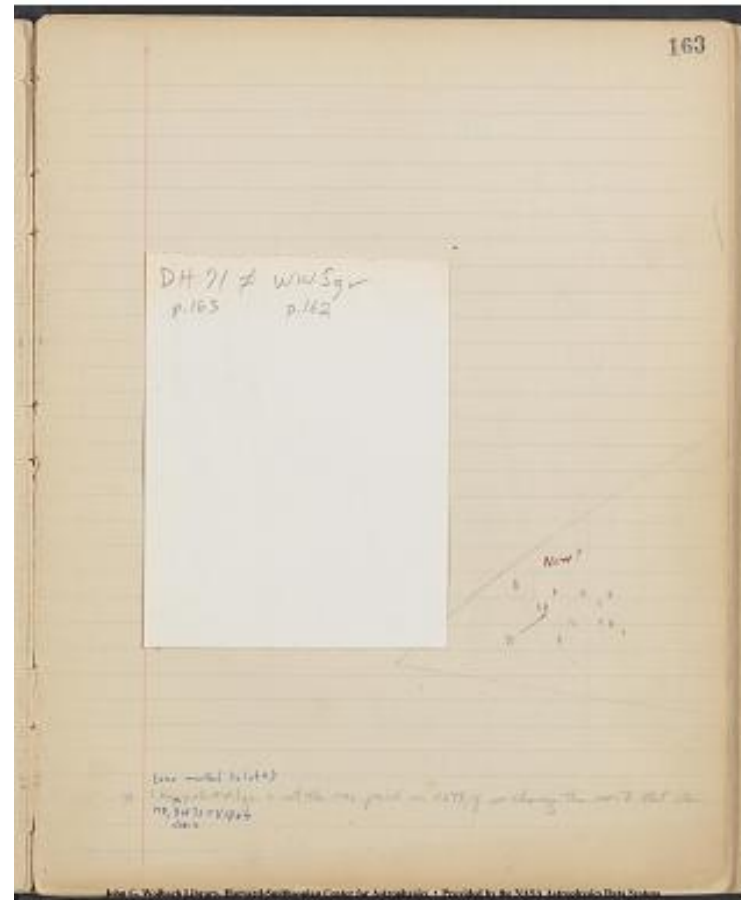
DH71 [Does not equal] wwSgr  
p.163 p.162  
[[/note paper attached]]

[[image]] New? 71

71 (var marked to left)

This no, DH71=V1864 above prob. WWSgr. & not the var found on 11677; if so change the no. to that star.

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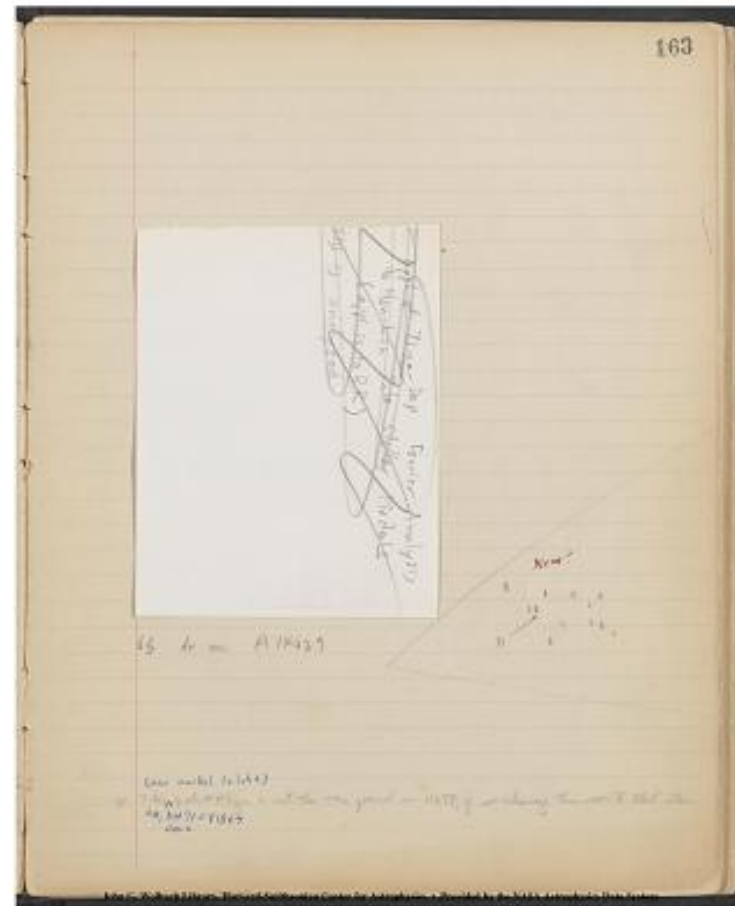
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~~Appl. of Time-Dep Fourier Analysis to Mon-Lin Puts~~  
Stellar Models (appl. is to RR) YM) is analyzed ~~[[/strikethrough]]~~

[[image]] New? 71

66 or on A1X029


(var marked to left)  
71 This no, DH71=V1864 above prob. WWSgr. & not the var found on  
11677; if so change the no. 6 To that star.



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30, MWF 193 #IV  
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Extracted Dec-02-2022 08:46:28

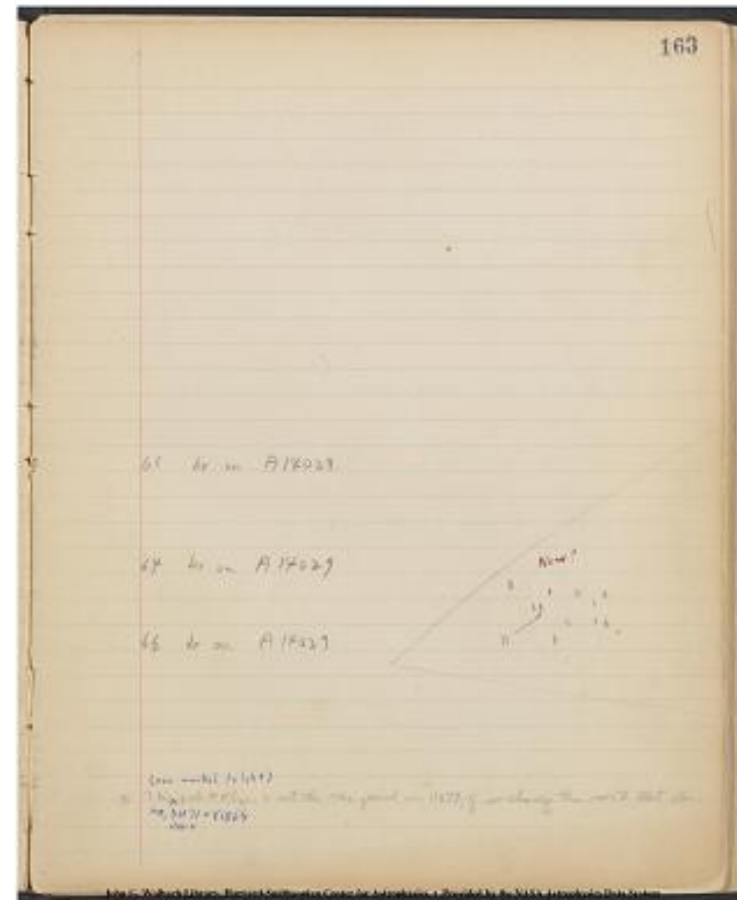
163

61 br on A14029

64 br on A14029  New? 71

66 br on A14029

(var marked to left)  
71 This no, DH71=V1864 above prob. WWSgr. & not the var found on 11677; if so change the no. to that star.



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164

[[four columns]]

MF13121ctd | bx. | ft. | S up

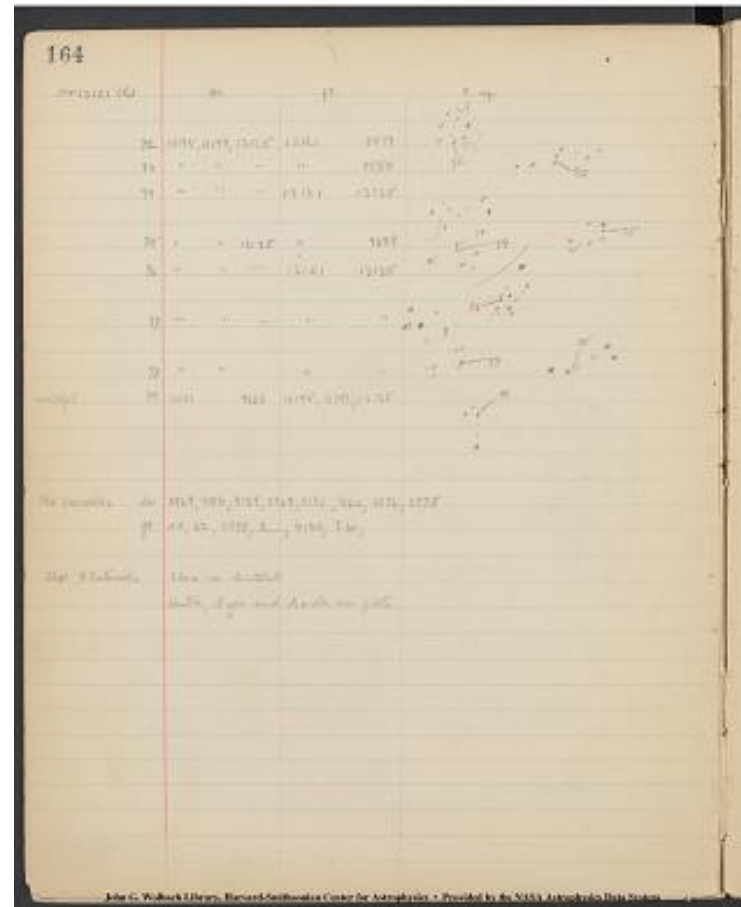
|             |                   |       |                   |       |
|-------------|-------------------|-------|-------------------|-------|
| 72          | 12195,12197,13135 | 13121 | 8519              | 415   |
| 73          | 12195,12197,13135 | 13121 | 9550              | 72 73 |
| 74          | 12195,12197, -    | 13121 | 13135             |       |
| 75          | 12195,12194,13135 | 13121 | 9589              | 74 75 |
| 76          | 12195,12194, -    | 13121 | 13135             |       |
| 77          | 12195,12194, -    | 13121 | 13135             | 76    |
| 78          | 12195,12194, -    | 13121 | 13135             | 77    |
| doubtful 79 | 13121             | 9626  | 12195,12194,13135 | 79    |

Old Variables Ir 3964, 4186, 4139, 3969, 4141, 4166, 3976, 3978

ft AP, XZ, 3975, I\_, 4140, I60,

Also 4 Asteroids Flora on contact  
Hestia, Nysa and Gerda on plate

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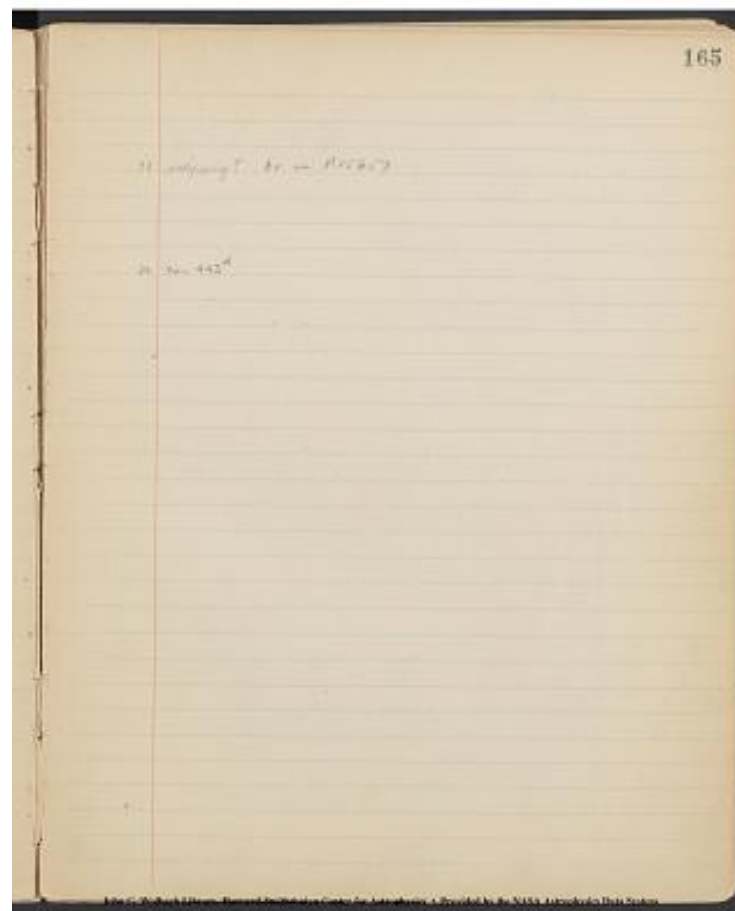


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165

73 eclipsing? br on A15657

76 Per 4436[[d]]

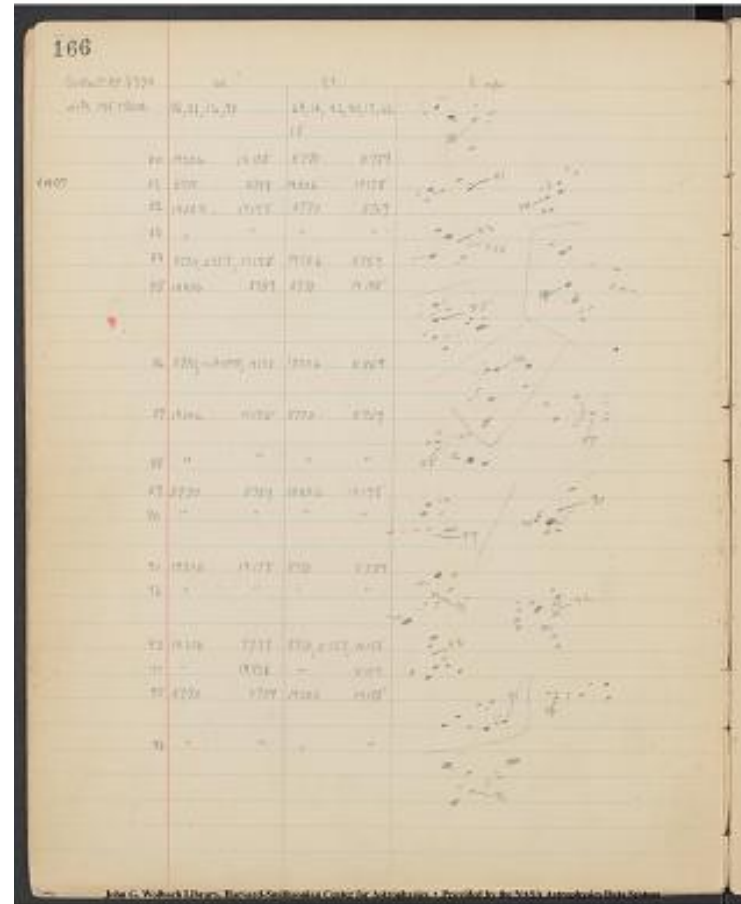


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[[left margin]]  
Contact MF 8770  
with MF 14206

[[left margin]] br. | ft. | S. up |  
|-----|-----|-----|  
| 46,21,13,77 | 64,16,43,40,17,62 | [[sketch]] |  
| 18 | 80 | |  
80|14206 | 14178|8770 | 8759|[[sketch]] |  
v1907 81|8770 | 8759|14206 | 14178| 81 | |  
82|14206 | 14178|8770 | 8759| 82 | |  
83|14206 | 14178|8770 | 8759| 83 | |  
84|8770, 8759,14178|14206 | 11759| 238 | |  
85|14206 | 8759|8770 | 14178| 84 | |  
| | 85 | |  
| | [[sketch]] | |  
86|8770;mb11900,14178|14206 | 8759| 86 | |  
| | [[sketch]] | |  
87|14206 | 14178|8770 | 8759| 87 | |  
| | [[sketch]] | |  
88|14206 | 14178|8770 | 8759| 88 | |  
89|8770 | 8759|14206 | 14178|[[sketch]] | |  
90|8770 | 8759|14206 | 14178| 90 | |  
| | 89 | |  
91|14206 | 14178|8770 | 8759| | |  
92|14206 | 14178|8770 | 8759|[[sketch]] | |  
| | 91 92 | |  
93|14206 | 9779|8770, 8759, 14178| 93 | |  
94|14206 | 14178|8770 | 8759|[[sketch]] | |  
95|8770 | 8759|14206 | 14178| 95 | |  
| | 94 | |  
96|8770 | 8759|14206 | 14178|[[sketch]] | |  
| | [[sketch]] | |  
| | 96 | |

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167

80 ^[[mb 19800 B plate Long period.]] inv on MF till 1929, visible May,  
June 1929 { inv ft from July on; very br 1930.

88 br on A15644

89 br on A14029 [[image]] 89

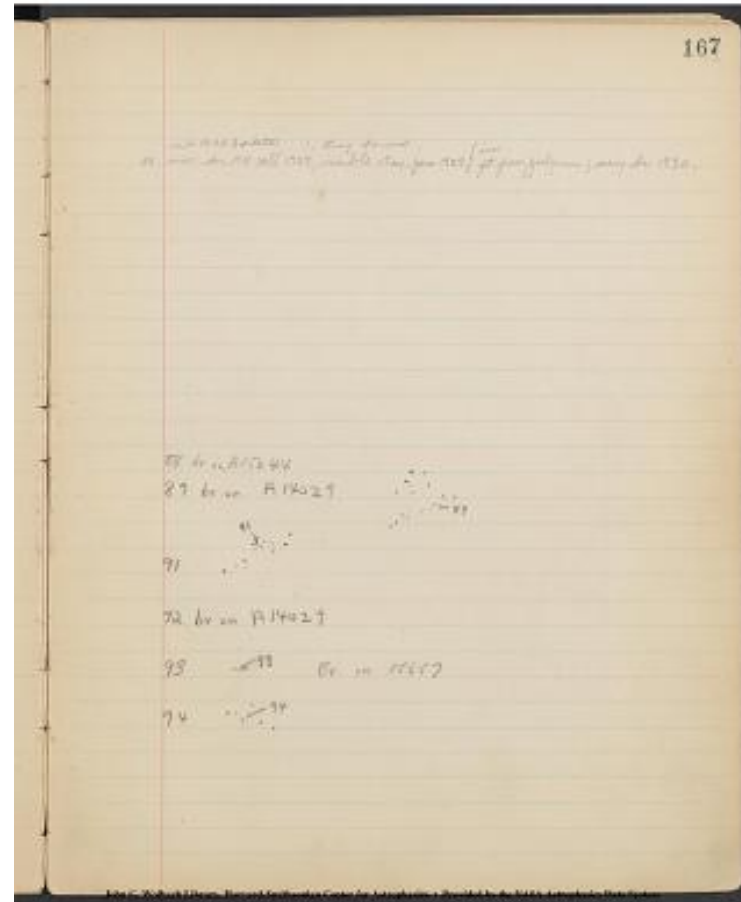
91 [[image]] 91

92 br on A14029

93 [[image]] 93 Br on 15657

94 [[image]] 94

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30, MWF 193 #IV  
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168

MF 14206 ct'd

[[3 column table]]  
|---|---|---|

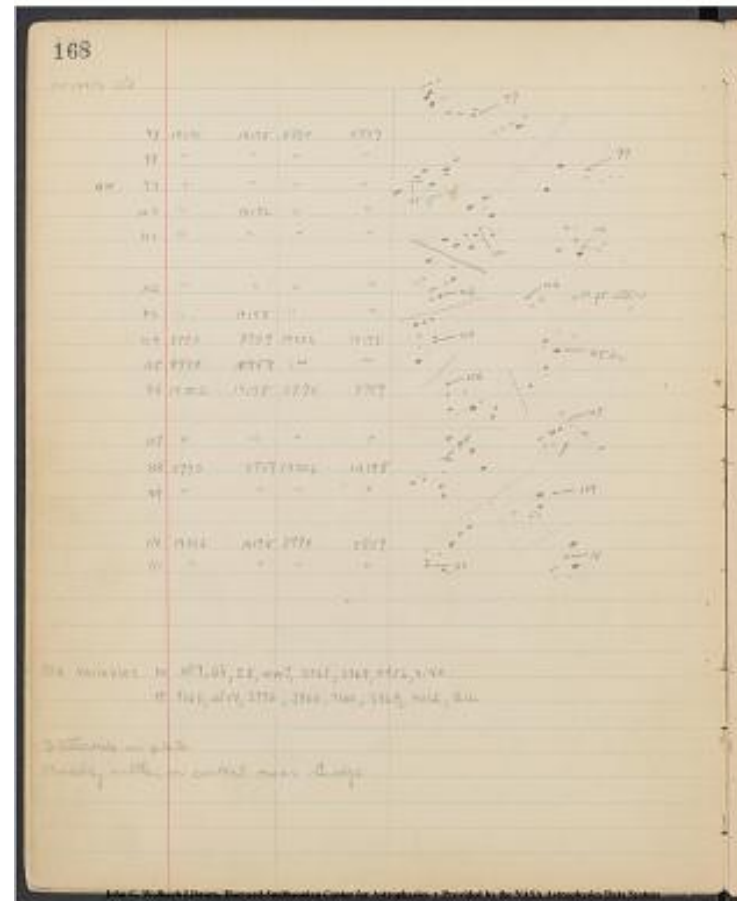
|       |             |             |
|-------|-------------|-------------|
| 97    | 14206 14178 | 8770 8759   |
| 98    | 14206 14178 | 8770 8759   |
| GW 99 | 14206 14178 | 8770 8759   |
| 100   | 14206 14192 | 8770 8759   |
| 101   | 14206 14192 | 8770 8759   |
| 102   | 14206 14192 | 8770 8759   |
| 103   | 14206 14178 | 8770 8759   |
| 104   | 8770 8759   | 14206 14178 |
| 105   | 8770 8759   | 14206 14178 |
| 106   | 14206 14178 | 8770 8759   |
| 107   | 14206 14178 | 8770 8759   |
| 108   | 8770 8759   | 14206 14178 |
| 109   | 8770 8759   | 14206 14178 |
| 110   | 14206 14178 | 8770 8759   |
| 111   | 14206 14178 | 8770 8759   |

[[2 column table]]  
|---|---|

Old variables br | I9, DV, I8, WW?, 3961, 3969, 4456, 4140  
ft | 4168, I14, 3976, 3966, 4160, 3964, 4012, GU

3 asteroids on plate  
Possibly another on contact near S. edge

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
169

97  97

99 Is this GW or HH?

102  102 Br on A14029

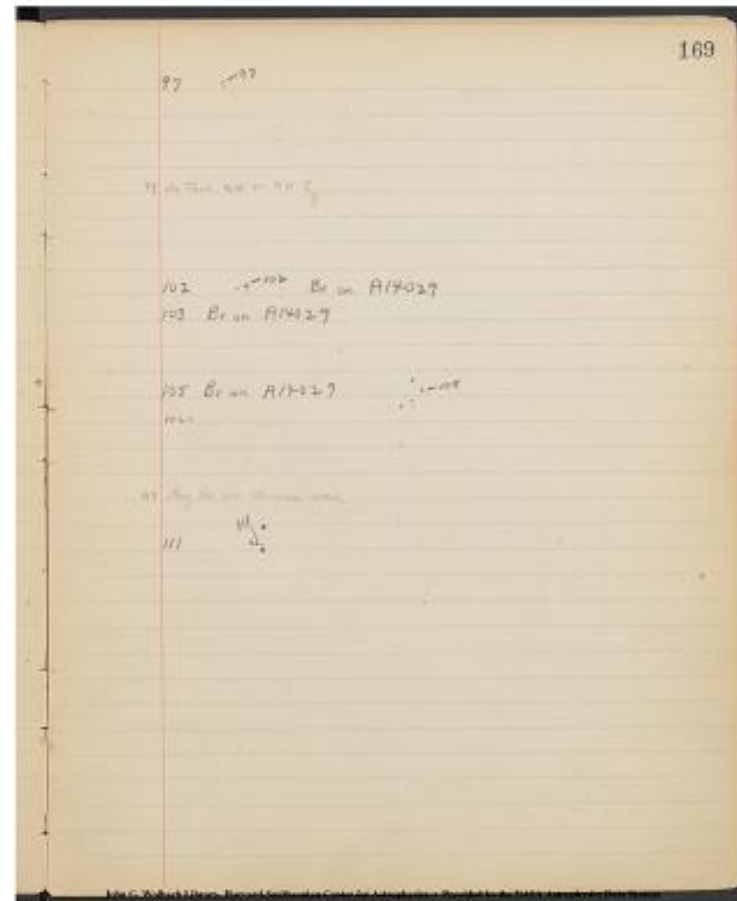
103 Br on A14029

105 Br on A14029  105

106=

109 May be Innes var,

111  111



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[[4 column table]]





Contact MF13482 | bc. | ft. | |


|-----|-----|-----|-----|

|                |                       |                   |  |  |
|----------------|-----------------------|-------------------|--|--|
| with MF13289   | 77, 48, 71, 72, 18    | 85, 74, 99, 83, 4 |  |  |
| (MF30405) (28) | 17, 22, 44, 104, 62   | 39, 40, 46, 47    |  |  |
|                | 57, 54, 7, 41, 21, 66 |                   |  |  |
|                | 24, 88, 86            |                   |  |  |

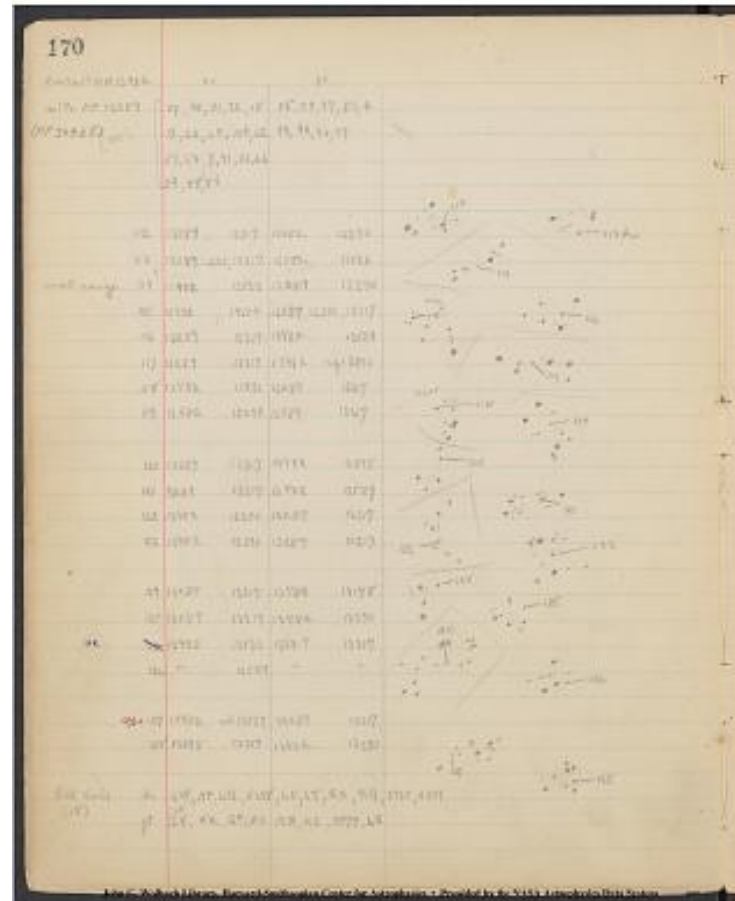
|      |       |       |       |         |           |               |
|------|-------|-------|-------|---------|-----------|---------------|
| 112  | 13289 | 13317 | 13482 | 13390   | [[image]] | 112           |
| 113  | 13289 | 13390 | 13317 | 13482   | 13236     | [[image]] 113 |
| 114? | 13482 | 13533 | 13289 | 13390   | [[image]] | 114           |
| 115  | 13482 | 14504 | 13289 | 13390   | 13317     | [[image]] 115 |
| 116  | 13289 | 13317 | 13482 | 13529   | [[image]] | 116           |
| 117  | 13289 | 13317 | 13482 | mf13390 | [[image]] | 117           |
| 118  | 13482 | 11831 | 13289 | 13317   | [[image]] | 118           |
| 119  | 13482 | 12244 | 13289 | 13317   | [[image]] | 119           |

|     |       |       |       |       |                                                                                   |     |
|-----|-------|-------|-------|-------|-----------------------------------------------------------------------------------|-----|
| 120 | 13289 | 13317 | 13482 | 12245 |  | 120 |
| 121 | 13289 | 13317 | 13482 | 13529 |  | 121 |
| 122 | 13482 | 13390 | 13289 | 13317 |  | 122 |
| 123 | 13482 | 13390 | 13289 | 13317 |  | 123 |

|                                                                                   |                |                  |       |       |                                                                                   |       |
|-----------------------------------------------------------------------------------|----------------|------------------|-------|-------|-----------------------------------------------------------------------------------|-------|
| 124                                                                               | 13289          | 13317            | 13482 | 14178 |  | 124   |
| 125                                                                               | 13289          | 13317            | 13482 | 13390 |  | 125   |
| HK                                                                                | <del>125</del> | <del>13317</del> | 13482 | 13533 | 13289                                                                             | 13317 |
|  | HK             |                  |       |       |                                                                                   |       |
| 126                                                                               | 13482          | 13529            | 13289 | 13317 |  | 126   |

| 98 = 127 | 13482 mb13529 | 13289 13317 |  127 |  
| 128 | 13298 13317 | 13482 13390 |  128 |

Old Vars (18) br LW, MP, LU, V348, LO, LT, GX, GQ,3980,V349  
ft 18^[[LP]], HK, GP, AI, MX, KS, 3979, LS

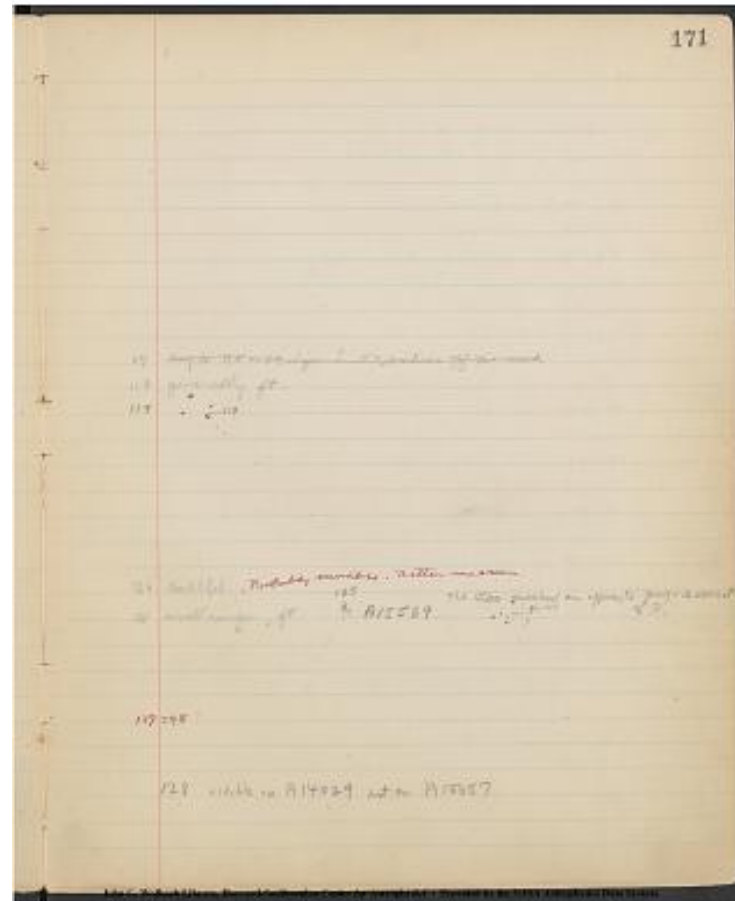


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171

[[2 column table]]  
 117 | ~~Maybe HN or HM lgr? No, positions off too much~~  
~~118 | generally ft.~~  
 119 | ~~119~~  
 124 | doubtful. Probably variable. Better measure.  
 125 | small range, ft 125 ~~A15569~~ The star marked on  
 opposite page is exact 125 Z.P.  
 127 | =98  
 128 | visible on A14029 not on A15657

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172

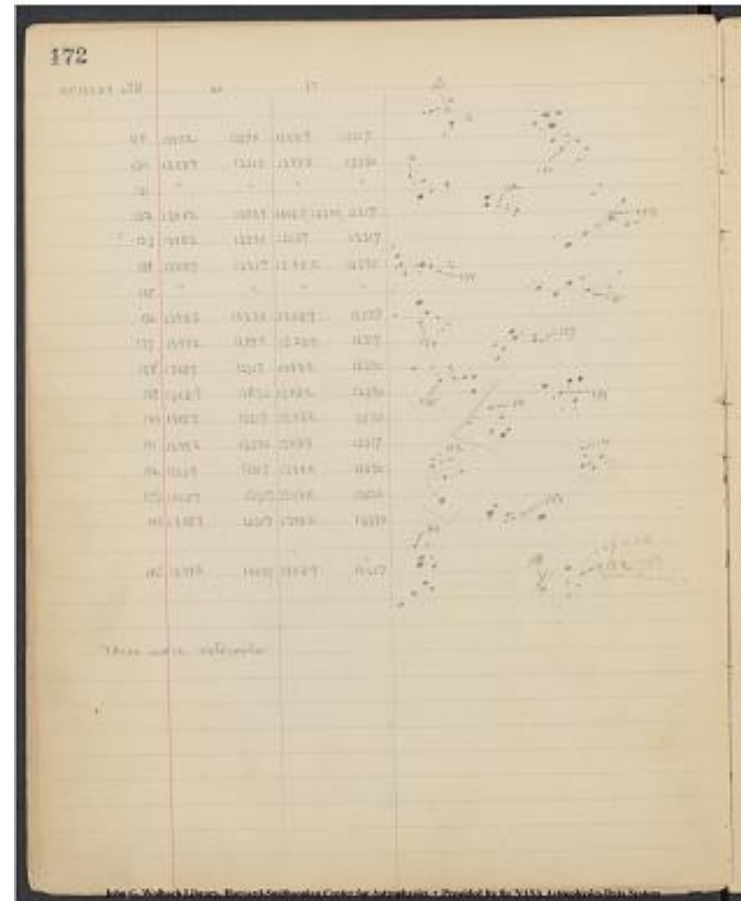
[[4 column table]]

MF13289 c't'd | br | ft | |  
 ---|---|---|---|

|       |       |       |               |       |           |                                      |
|-------|-------|-------|---------------|-------|-----------|--------------------------------------|
| 129   | 13482 | 13390 | 13289         | 13317 | [[image]] | 129                                  |
| 130   | 13287 | 13317 | 13482         | 13390 | [[image]] | 130                                  |
| 131   | 13287 | 13317 | 13482         | 13390 | [[image]] | 131                                  |
| 132   | 13482 | 13529 | 13289, 13390, | 13317 | [[image]] | 132                                  |
| ? 133 | 13482 | 13390 | 13289         | 13317 | [[image]] | 133                                  |
| 134   | 13289 | 13317 | 13482         | 13390 | [[image]] | 134                                  |
| 135   | 13289 | 13317 | 13482         | 13390 | [[image]] | 135                                  |
| 136   | 13482 | 13390 | 13289         | 13529 | [[image]] | 136                                  |
| 137   | 13482 | 12244 | 13289         | 13317 | [[image]] | 137                                  |
| 138   | 13289 | 13317 | 13482         | 13390 | [[image]] | 138                                  |
| 139   | 13289 | 13236 | 13482         | 13390 | [[image]] | 139                                  |
| 140   | 13289 | 13317 | 13482         | 13390 | [[image]] | 140                                  |
| 141   | 13482 | 13390 | 13289         | 13317 | [[image]] | 141                                  |
| 142   | 13289 | 13317 | 13482         | 13390 | [[image]] | 142                                  |
| 143   | 13289 | 13317 | 13482         | 13236 | [[image]] | 143                                  |
| 144   | 13289 | 13317 | 13482         | 13390 | [[image]] | 144                                  |
| 145   | 13482 | 13529 | 13289         | 13317 | [[image]] | 145 4142 = 6? does this vary? 29G=16 |

Three more asteroids

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173

[[2 columned table]]

| --- | --- |

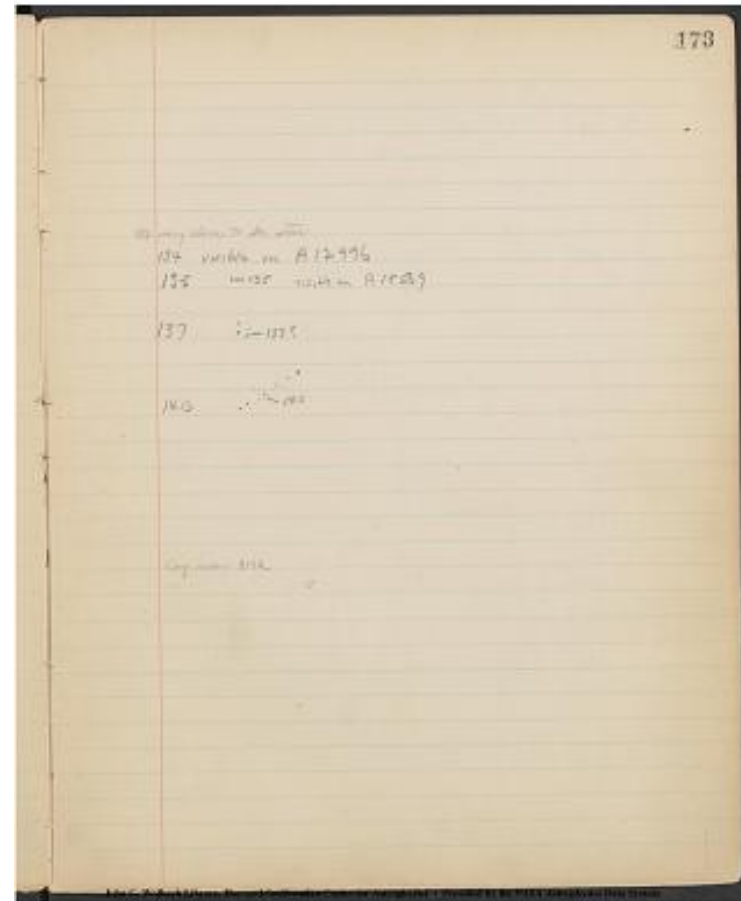
| 133 | very close to br. star |  
| 134 | visible on A12996 |  
| 135 | 135 visible on A15569 |

| 137 | 137? |

| 140 | 140 |

| very near 4142 |  
| < |

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174

[[5 column table]]

Contact MF13482 | br | ft | | |  
 ----|----|----|

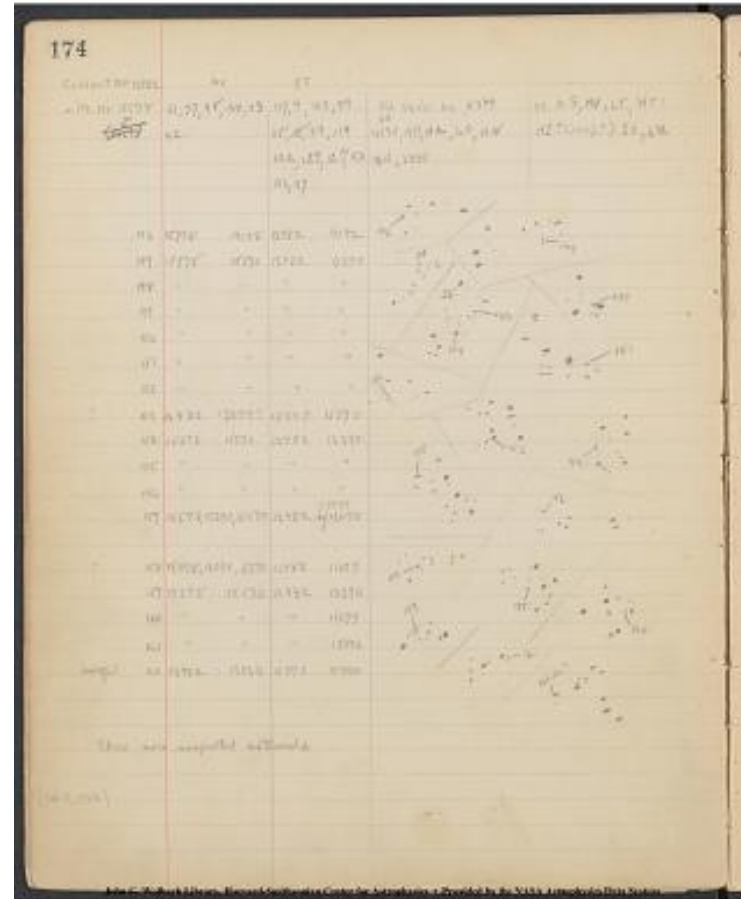
| with MF15578 | 61, 77, 48, 140, 13 | 137, 4, 133, 99 | Old Vars: br.  
 V349 | ft. KS, MV, LT, HT: |  
 | ~~[[strikethrough]]~~(lost)~~[[/strikethrough]]~~ | 42 | 118, 18, 39, 114 |  
 4140<sup>^</sup>[[IO]], MP, HK, LO, HN | HI? ([[?]]?), IO, LU |  
 | | 122, 129, 127, 43 | GU, 3971 | |  
 | | 126, 47 | | |

[[4 column table]]

|                                                            |        |        |       |       |                        |           |       |
|------------------------------------------------------------|--------|--------|-------|-------|------------------------|-----------|-------|
| 146                                                        | 15578  | 14178  | 13482 | 14192 | [[image]]              | 146       |       |
| 147                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 147       |       |
| 148                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 148       |       |
| 149                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 149       |       |
| 150                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 150       | 8 109 |
| 151                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 151       |       |
| 152                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 152       |       |
| 153                                                        | 13482  | 13379? | 15578 | 15570 | [[image]]              | 153       |       |
| 154                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 154       |       |
| 155                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 155       |       |
| 156                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 156       |       |
| 157                                                        | 15578, | 13390, | 15570 | 13482 | Inf 12090 ^[[f. 9747]] | [[image]] | 157   |
| 158                                                        | 15578, | 12090, | 15570 | 13482 | 11677                  | [[image]] | 158   |
| 159                                                        | 15578  | 15570  | 13482 | 13390 | [[image]]              | 159       |       |
| 160                                                        | 15578  | 15570  | 13482 | 11677 | [[image]]              | 160       |       |
| 161                                                        | 15578  | 15570  | 13482 | 13496 | [[image]]              | 161       |       |
| doubtful 162   13482 13533   15578 15570 [[image]] 162 br? |        |        |       |       |                        |           |       |

Three more suspected asteroids

(Feb. 8, 1932)





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175

149  dmm's  
IS=LP Sgn.

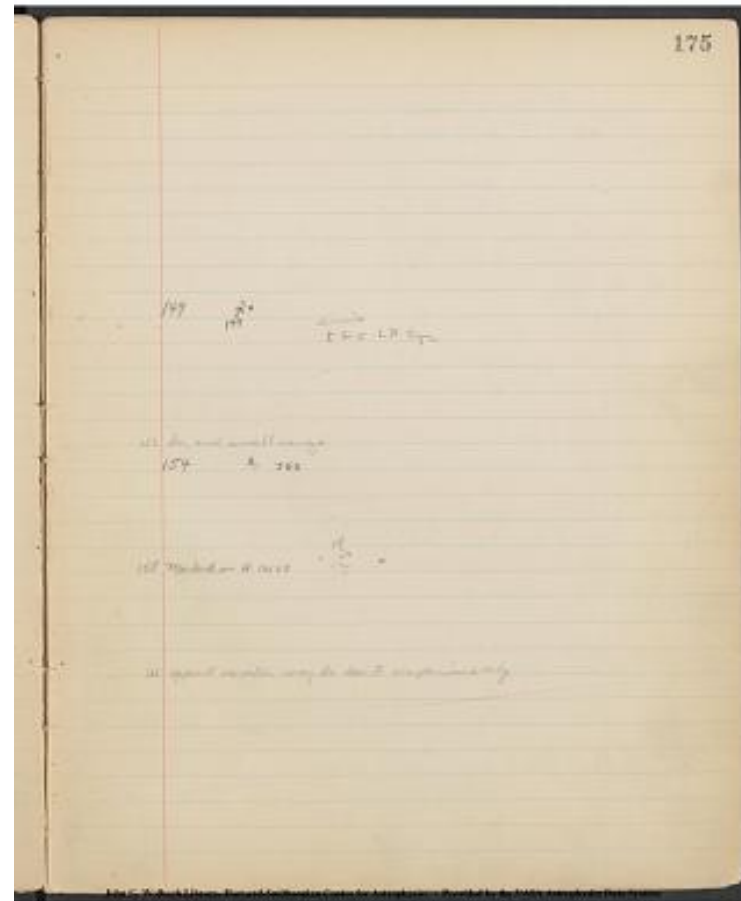
153 br, and small range

154  JGD

158 Marked on A 13569 

162 apparent variation may be due to comparisons only

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176

[[four column table]]

|---|---|---|

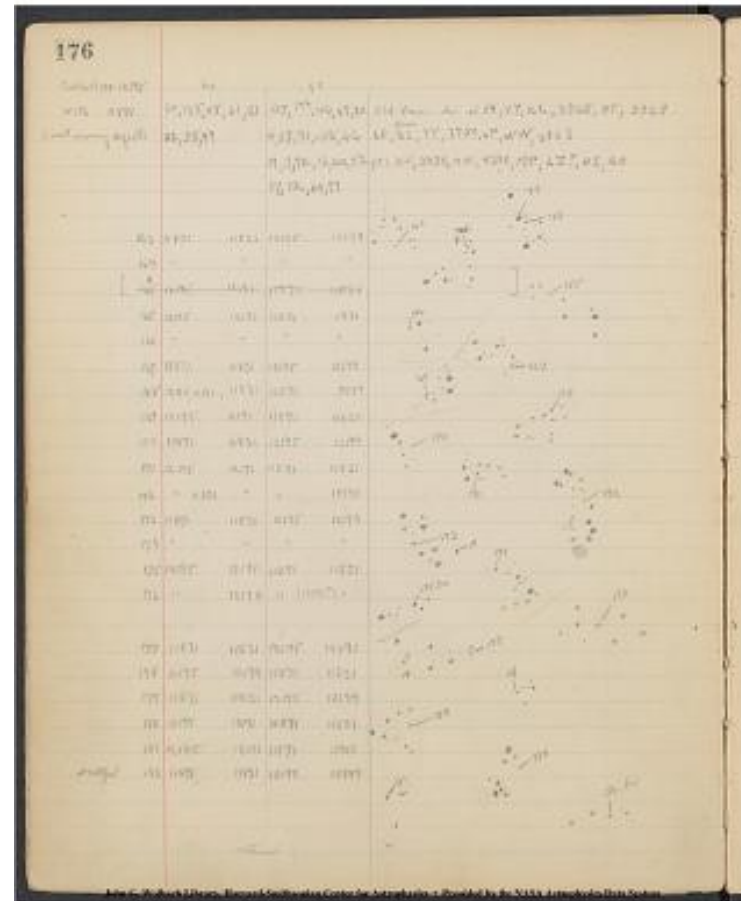
|Contact MF 12195 with 11871|br.|ft| |  
|60, 135, 118, 61, 21|137, 144, 106, 69, 90|Old Vars. h: 114, VY, KL,  
3968, HT, 3969|  
|Great many defects|22, 28, 49|4, 27, 91, 158, 66|10, B5 ^[[Nova]], YY,  
3980, LP, WW, 3963|  
| |19, 7, 72, 13, 102, 52|ft: kV, 3970, MW, V348, MP, LZ?, HI, GO |  
| |57, 12, 24, 77| |

|163|1187 11831|12195 12194|[[image]] 163  
|~~165~~|~~165~~|~~165~~|4  
|164|11871 11831|12195 12194|[[image]] YY 164 |  
|~~165~~|~~12195 12191~~|~~11871 11831~~|~~165~~|~~165~~|~~165~~|~~165~~|  
|[[image]] 4|  
|165|12195 12191|11871 11831|[[image]] 165|  
|166|12195 12191|11871 11831|[[image]] 166 |  
|167|11871 11831|12195 12194|[[image]] 167 |  
|168|12195, 12191, 11831|11871 9759|[[image]] 168 |  
|169|12195 12191|11871 11831|[[image]] 169 |  
|170|11871 11831|12195 12194|[[image]] 170 |  
|171|12195 12191|11871 11831|[[image]] 171 |  
|172|12195 11831|12191|11871 14540|[[image]] 172 |  
|173|11871 11831|12195 12194|[[image]] 173 A|  
|174|11871 11831|12195 12194|[[image]] 174 |  
|175|12195 12191|11871 11831|[[image]] 175 |  
|176|12195 12194|11871 (12191?) 11831|[[image]] 176 |

|177|11871 11831|12195 12191|[[image]] 177 |  
|178|12195 12194|11871 11831|[[image]] 178 |  
|179|11871 11831|12195 12194|[[image]] 179 |  
|180|12195 12191|11871 11831|[[image]] 180 |  
|181|12195 12191|11871 11900|[[image]] 181 |  
|182|11871 11831|12195 12194|[[image]] 182 br|  
| |[[image]]|

continued

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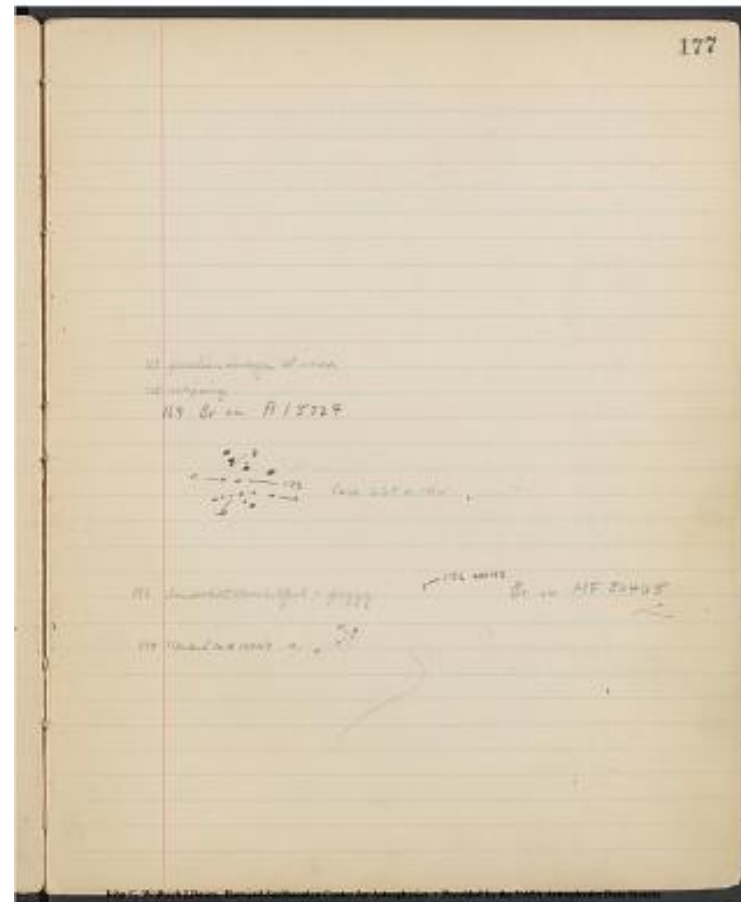
177

| 167 | peculiar image at max |  
| 168 | eclipsing |  
| 169 Br on A15724 |

[[image]] C B D 173 A Case 6650-UV

176 - somewhat doubtful - fuzzy [[image]] 176 varies Br on MF30405

177 - marked on A 13569 [[image]] 177



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178

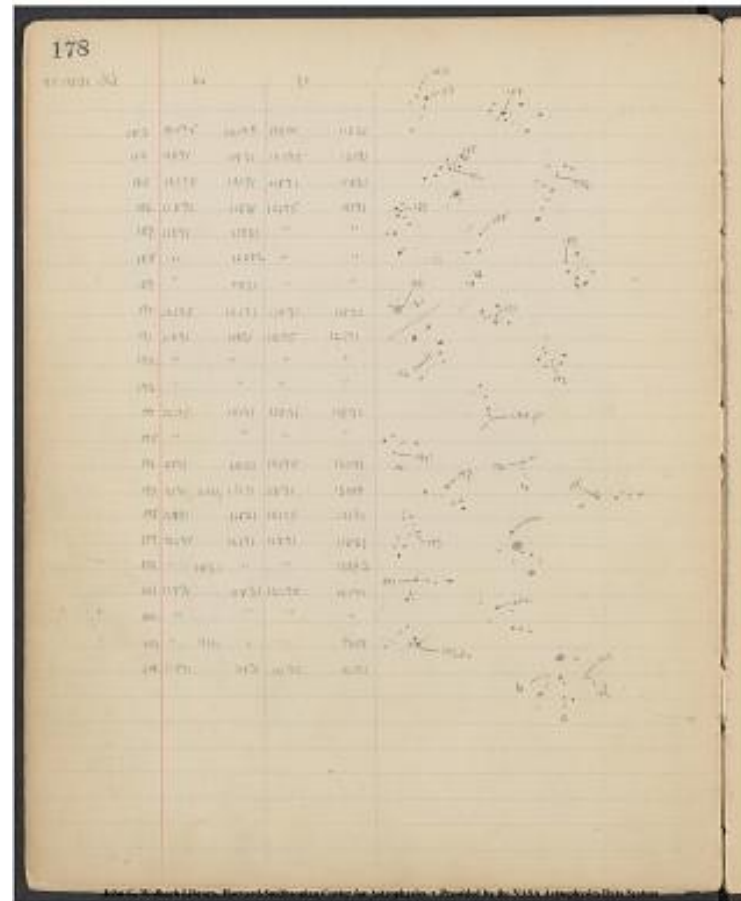
[[four columned table]]

|---|---|---|---|

|MF 1871 c't'd | br | ft | |

|183|12195 12194|11871 11831|[[image]] 183 39 |  
|184|11871 11831|12195 12191|[[image]] 184 |  
|185|12195 12191|11871 11831|[[image]] 185 |  
|186|11871 11831|12195 12191|[[image]] 186 |  
|187|11871 11831|12195 12191|[[image]] 187 |  
|188|11871 12241|12195 12191|[[image]] 188 |  
|189|11871 11831|12195 12191|[[image]] 189 |  
|190|12195 12191|11871 11831|[[image]] 190 |  
|191|11871 11831|12195 12191|[[image]] 191 |  
|192|11871 11831|12195 12191|[[image]] 192 |  
|193|11871 11831|12195 12191|[[image]] 193 |  
|194|12195 12191|11871 11831|[[image]] 194 ft |  
|195|12195 12191|11871 11831|[[image]] 195 |  
|196|11871 11831|12195 12191|[[image]] 196 |  
|197|12195, 11831, 12191|11871 13454|[[image]] 197 |  
|198|11871 11831|12195 12191|[[image]] 198 |  
|199|12195 12191|11871 11831|[[image]] 199 |  
|200|12195 11831 12191|11871 12243|[[image]] 200 |  
|201|11871 11831|12195 12191|[[image]] 201 |  
|202|11871 11831|12195 12191|[[image]] 202 |  
|203|11871 12191 11831|12195 9684|[[image]] 203 |  
|204|11871 11831|12195 12191|[[image]] 204 a b c d |

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179

183 Br on A19582<sup>A</sup>[[MF? or A19533?]] [[image]] 183

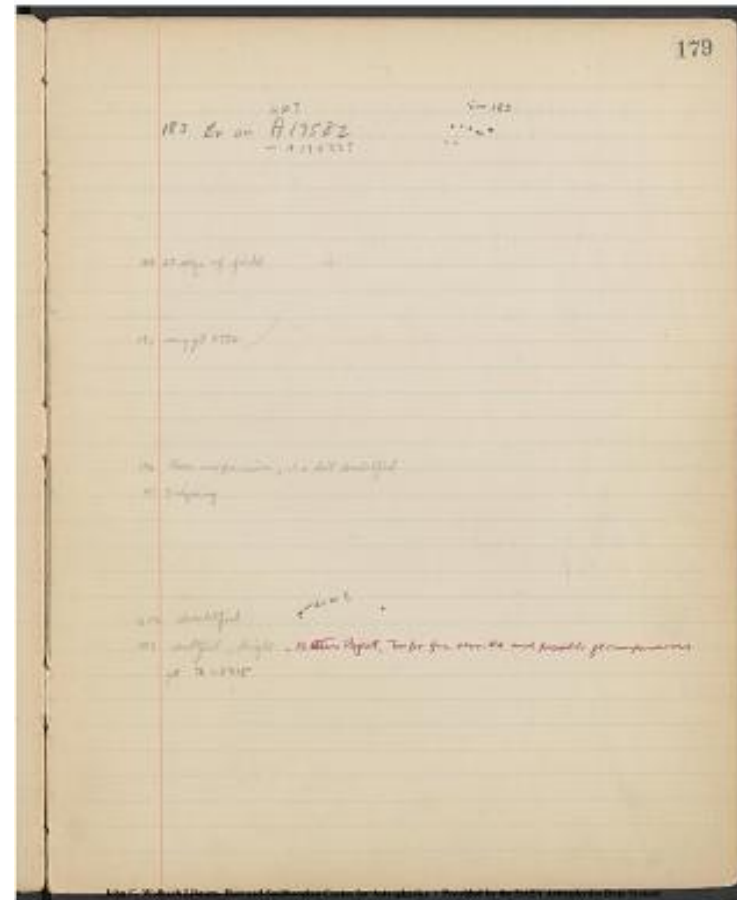
188 at edge of field

191 very ft 8770

196 close companion, a bit doubtful  
197 eclipsing

202 doubtful [[image]] 202?  
203 doubtful; bright. Better Reject Too br for eren NA and possible ft  
companion  
ft B 68415

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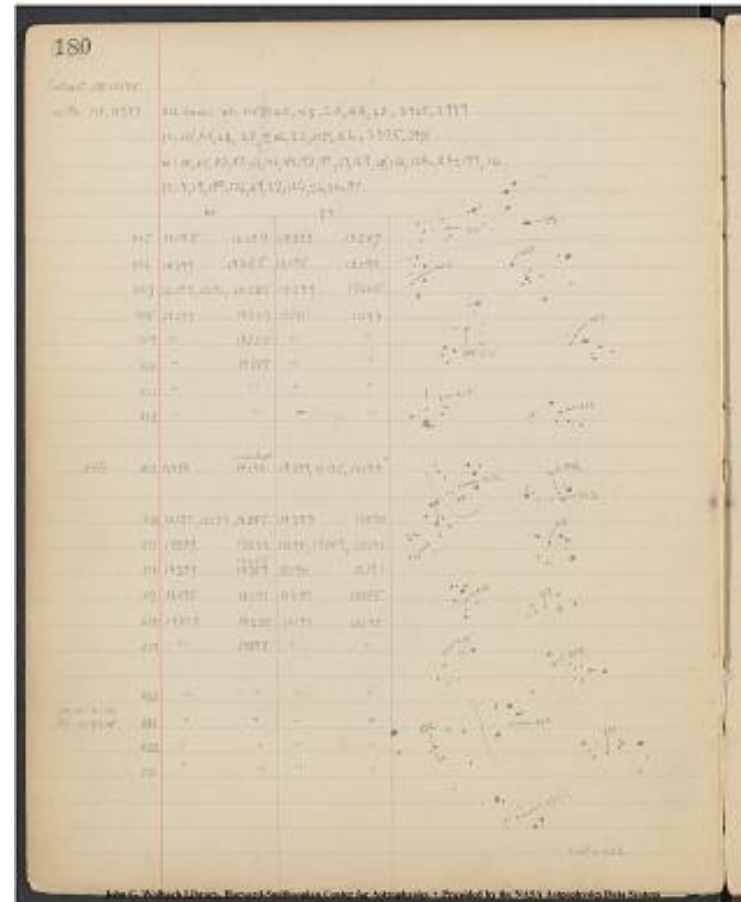
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180  
 Contact MF12195  
 with MF14399|Old Vars: br: HV3960, MS, IN, HQ, LO, 3965, 3979|  
 | ft: MV, KV, LU, GO, IK, IS, MP, KL, 3975, 3971|  
 | br: 80, 85, 83, 82, 61, 46, 44, 93, 94, 17, 129, 18, 116, 122, 22, 199,  
 16|  
 | ft: 4, 19, 180, 176, 69, 27, 126, 76, 72, 90|

[[four columned table]]  
 | br | ft | |  
 |---|---|---|

|205|12195 12194|14399 14387|[[image]] 205 34 |  
 |206|14399 14255|12195 12194|[[image]] 206 |  
 |207|12195, 12191, 14255|14399 12194|[[image]] 207 |  
 |208|14399 14387|12195 12194|[[image]] 208 br |  
 |209|14399 14255|12195 12194|[[image]] 209 |  
 |210|14399 14387|12195 12194|[[image]] 210 |  
 |211|14399 14387|12195 12194|[[image]] 211 |  
 |212|14399 14387|12195 12194|[[image]] 212 |  
 |note 213|13454 14192^|[[marked]]|14399, 12195, 12194|[[image]] 213  
 |a=243|  
 |214|12195, 12194, 14387|14399 12090|[[image]] 214 |  
 |215|14399 13533|12195, 14387, 12191|[[image]] 215 |  
 |216|14399 14387^|[[14255]]|12195 12191|[[image]] 216 |  
 |217|12195 12191|14399 14255|[[image]] 217 |  
 |218|14399 14387|12194 12195|[[image]] 218 |  
 |219|14399 14255|12194 12195|[[image]] 219 |  
 |220|14399 14255|12194 12195|[[image]] 220 |  
 |ns on 8770 br on 8638 221|14399 14255|12194 12195|[[image]] 221 |  
 |222|14399 14255|12194 12195|[[image]] 222 |  
 |223|14399 14255|12194 12195|[[image]] 223 |

continued  
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181

207 | Eclipsing

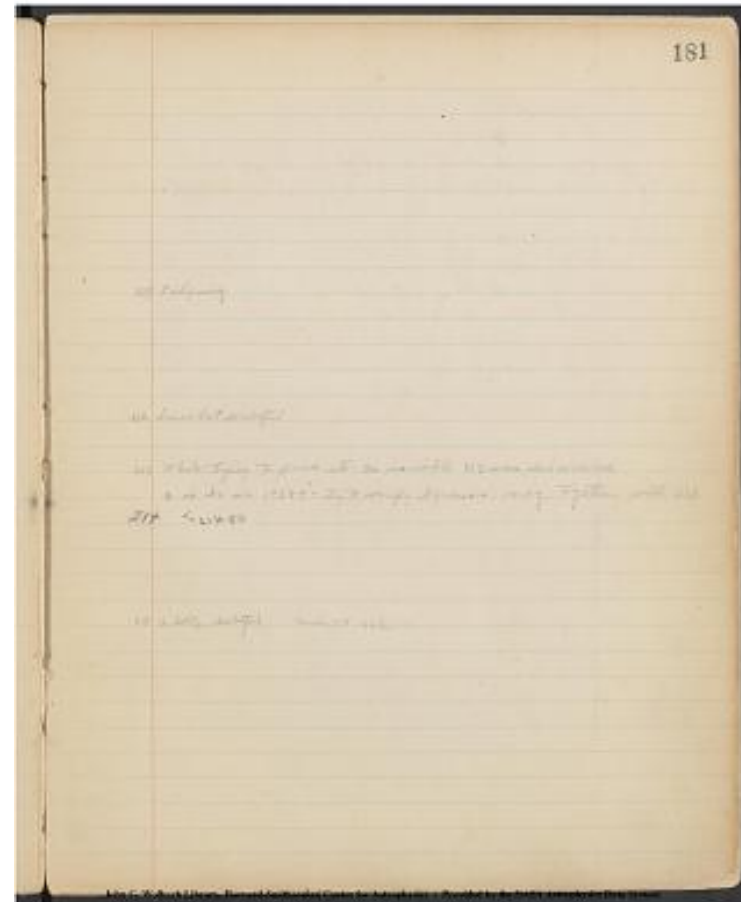
212 | Somewhat doubtful

213 |

214 |

218 | A little doubtful Varies DH 1962

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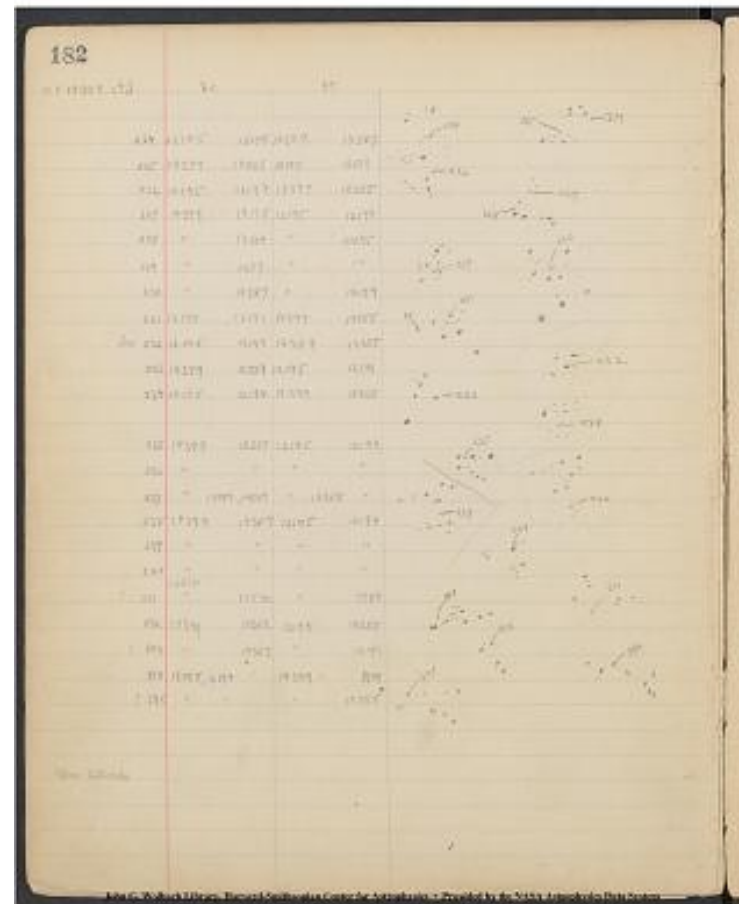
182

[[four columned table]]

MF 14399 c't'd|br.|ft|

|---|---|---|---|

|        |       |       |       |       |           |        |
|--------|-------|-------|-------|-------|-----------|--------|
| 224    | 12195 | 12194 | 14399 | 14387 | [[image]] | 224    |
| 225    | 14399 | 14255 | 12195 | 12194 | [[image]] | 225 IM |
| 226    | 12195 | 12194 | 14399 | 14255 | [[image]] | 226    |
| 227    | 14399 | 14187 | 12195 | 12194 | [[image]] | 227    |
| 228    | 14399 | 14504 | 12195 | 14255 | [[image]] | 228    |
| 229    | 14399 | 11677 | 12195 | 14255 | [[image]] | 229    |
| 230    | 14399 | 14387 | 12195 | 12194 | [[image]] | 230    |
| 231    | 12195 | 12191 | 14399 | 14255 | [[image]] | 231 45 |
| bv 232 | 12195 | 12194 | 14399 | 14255 | [[image]] | 232    |
| 233    | 14399 | 13379 | 12195 | 12191 | [[image]] | 233    |
| 234    | 12195 | 12194 | 14399 | 14255 | [[image]] | 234    |
| 235    | 14399 | 14255 | 12195 | 12194 | [[image]] | 235    |



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183

[[2 columns]]

---|---

229 | [[?]] on 17 13569

234 | very faint

236 | small range

238 | See fig. for var 83

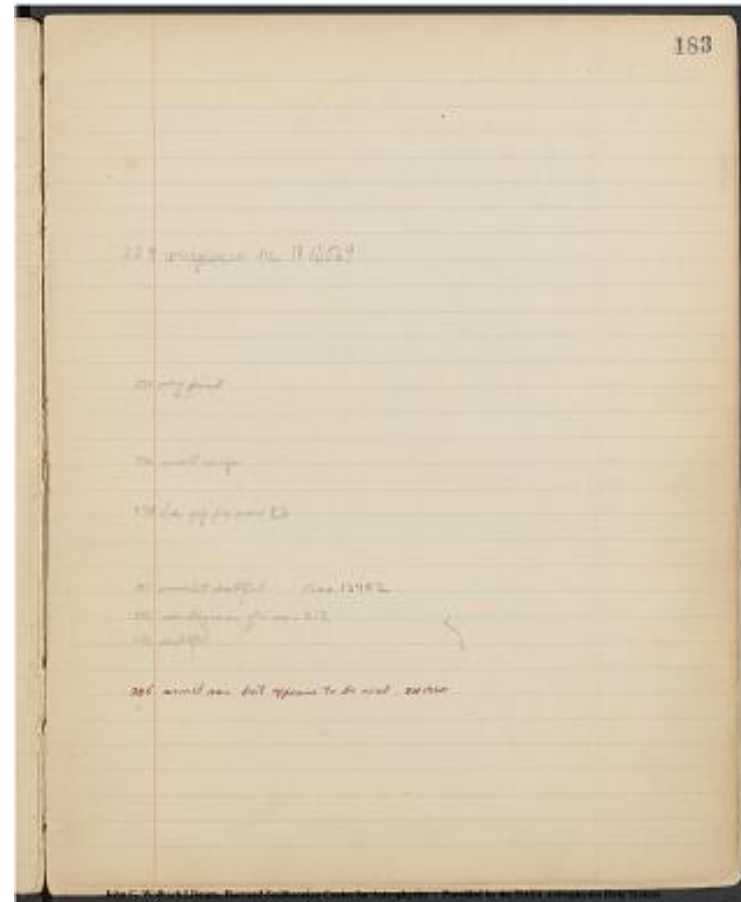
241 | somewhat doubtful Max 13482

242 | see diagram for var 213.

243 | doubtful

245 | small var but appears to be real. DH 1960

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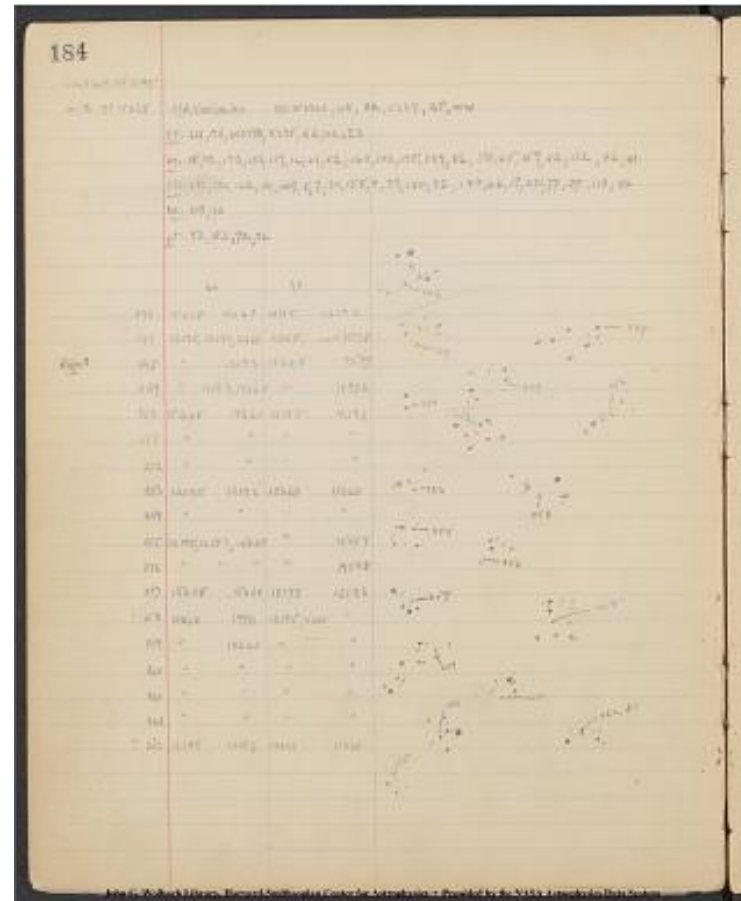
184  
Contact MF 12195  
with MF 15668

Old Variables br. HV3960, HN, HK, V349,  
GP, WW  
ft. LU, MV, HV3970, V348, GQ, HQ, IS  
br. 18, 42, 193, 151, 147, 16; 61, 82, 160,  
203, 145, 229, 86, 140, 65, 159, 22, 152, 46, 21  
ft. 69; 190, 102, 191, 207, 8, 7, 90, 158, 4,  
99, 180, 73, 144, 66, 19, 231, 77, 27, 114, 24  
br. 109, 40  
ft. 43, 183, 72, 76

[4 Columned Table]  
| br | ft. |  
---|---|---|

246|15668 15660|12195 12193|--246|  
247|12195, 12193, 15660|15668 med 15578|--247|  
Reject 248|12195, 12193|15668 959.7|--248|  
249|12195, 12193, 15660|15668 14772|--249|  
250|15668 15660|12195 12193|--250|  
251|15668 15660|12195 12193|--251|  
252|15668 15660|12195 12193|--252|  
253|12195 12193|15668 15660|--253|  
254|12195 12193|15668 15660|--254|  
255|12195, 12193, 15660|15668 15557|--255|  
256|12195, 12193, 15660|15668 14548|--256|  
257|15668 15660|12195 12193|--257|  
? 258|15668 14771|12195, 15660, 12193|--258|  
259|15668 15660|12195 - 12193|--259|  
260|15668 15660|12195 12193|--260|  
261|15668 15660|12195 12193|--261|  
262|15668 15660|12195 12193|--262 br|  
? 263|12195 12193|15668 15660|--263|

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185

[[2 columned table]]

| --- | --- |

| | 246 visible on A12996 |

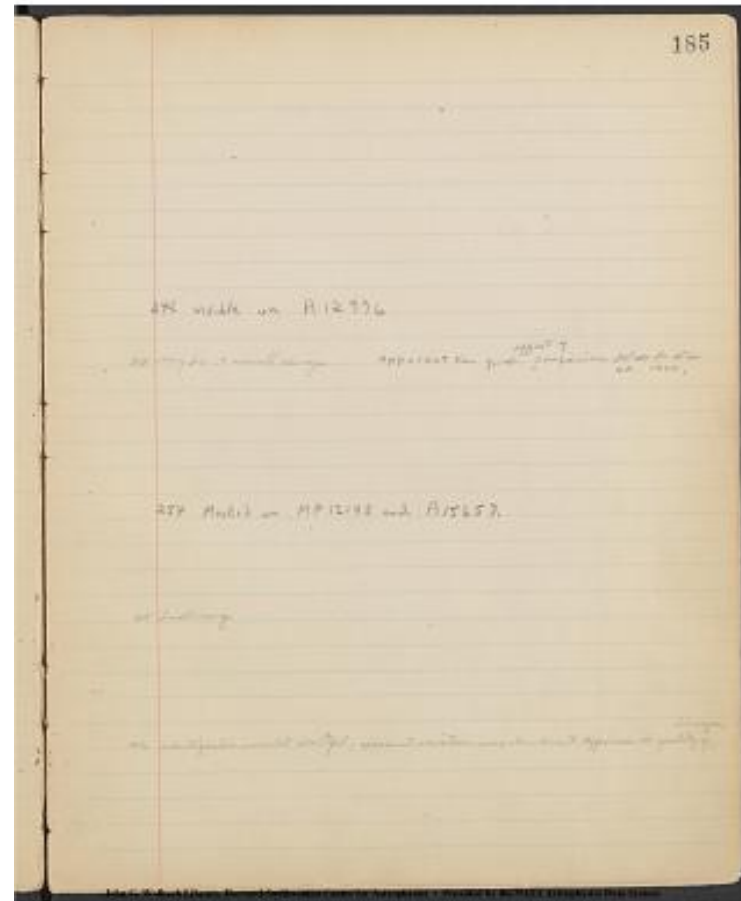
| 248 | very br. & small range Apparent Var prob. effect of comparison below br star. DH. 1960. |

| | 254 Marked on MF12193 and A15657. |

| 258 | Small range |

| 263. | Identification somewhat doubtful; apparent variation may be due to difference in quality of images. |

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186

Contact MF 13482 with 9672

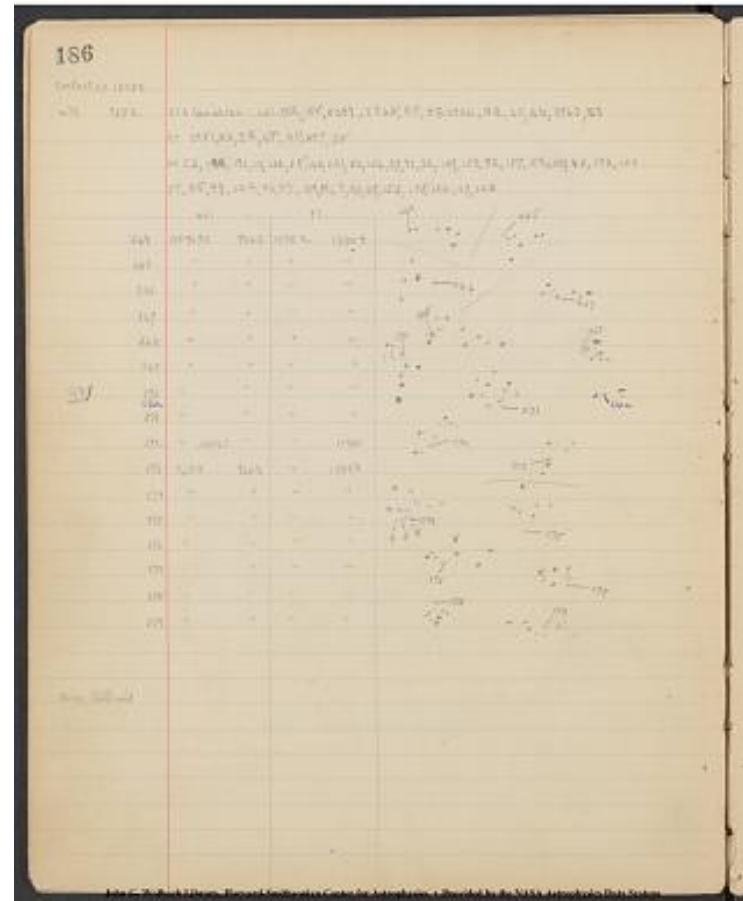
Old Variables: br: MR,KV,V349,3968,KO,HZ,3966,GQ,LO,GU,3963,BS  
FT 3981,KS,IR,LT,GP,HT?,I8  
br53,192,191,17,102,88,180,231,82,156,77,41,72,199,154,92,157,22,15  
0,40,196,120  
FT,85,99,122,46,47,129,141,4,43,49,153,148,126,29,123

[[4 column table]]

| | br. | Ft. | |  
|---|---|---|

264 | MF9672 9663 | 13482 13454 | [[image]]  
265 | MF9672 9663 | 13482 13454 | [[image 265]]  
266 | MF9672 9663 | 13482 13454 | [[image]]  
267 | MF9672 9663 | 13482 13454 | [[image]]  
268 | MF9672 9663 | 13482 13454 | [[image]]  
269 | MF9672 9663 | 13482 13454 | [[image]]  
GP? 270 | MF9672 9663 | 13482 13454 | [[image]]  
270a | MF9672 9663 | 13482 13454 | [[image]]  
271 | MF9672 9663 | 13482 13454 | [[image]]  
272 | MF9672,13454: 9663 | 13482 11900 | [[image]]  
273 | 9672 9663 | 13482 13454 | [[image]]  
274 | 9672 9663 | 13482 13454 | [[image]]  
275 | 9672 9663 | 13482 13454 | [[image]]  
276 | 9672 9663 | 13482 13454 | [[image]]  
277 | 9672 9663 | 13482 13454 | [[image]]  
278 | 9672 9663 | 13482 13454 | [[image]]  
279 | 9672 9663 | 13482 13454 | [[image]]


One Asteroid




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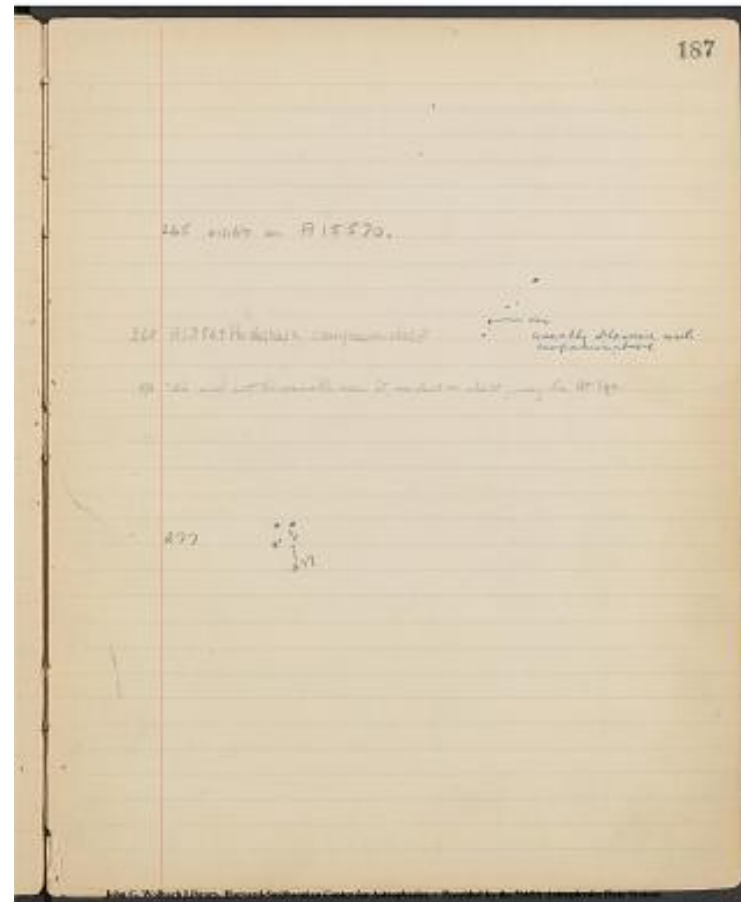
187

265 visible on A15570.

268 A13569 the star had a companion star?  usually blended with companion, above

270 This and not the variable near it, marked on chart, may be GP Sqr.

277 



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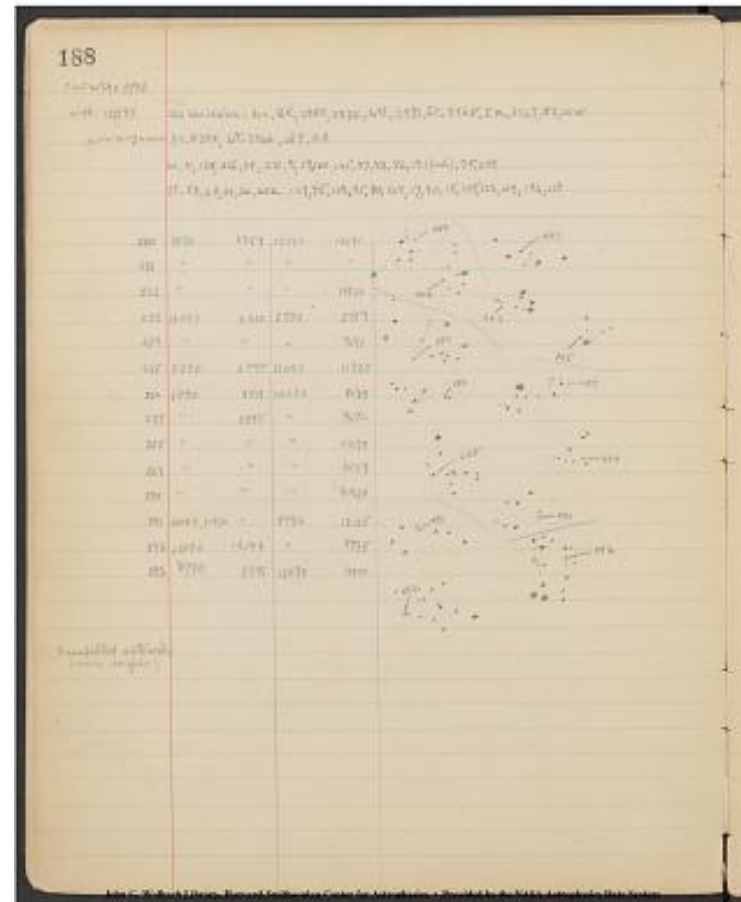
188  
 contact MF 8770 with 12090  
 Old Variables: br,DV,3980,3970,LU,3971,IO,3968,IK,3969,HI,WW  
 poor comparison ft,V348,LT,3966,I7,GO  
 br. 4,138,256,74,231,91,19,180,190,77,43,76,191(mb),75,239  
 ft.  
 59,64,81,36,202,129,45,104,95,90,139,17,40,18,108,123,109,196,114

[[4 column table]]  
 |---|---|---|---|

|     |              |       |       |       |           |
|-----|--------------|-------|-------|-------|-----------|
| 280 | 8770         | 8759  | 12090 | 1291  | [[image]] |
| 281 | 8770         | 8759  | 12090 | 1291  | [[image]] |
| 282 | 8770         | 8759  | 11920 |       | [[image]] |
| 283 | 12090        | 11920 | 8770  | 8759  | [[image]] |
| 284 | 12090        | 11920 | 8770  | 9691  | [[image]] |
| 285 | 8770         | 8795  | 12090 | 11920 | [[image]] |
| 286 | 8770         | 8519  | 12090 | 9597  | [[image]] |
| 287 | 8770         | 8795  | 12090 | 9672  | [[image]] |
| 288 | 8770         | 8795  | 12090 | 11677 | [[image]] |
| 289 | 8770         | 8795  | 12090 | 8519  | [[image]] |
| 290 | 8770         | 8795  | 12090 | 11920 | [[image]] |
| 291 | 12090, 11920 | 12090 | 8770  | 13135 | [[image]] |
| 292 | 12090        | 12194 | 12090 | 8759  | [[image]] |
| 293 | 8770         | 8795  | 12090 | 8759  | [[image]] |

4 suspected asteroids  
 (none verified)

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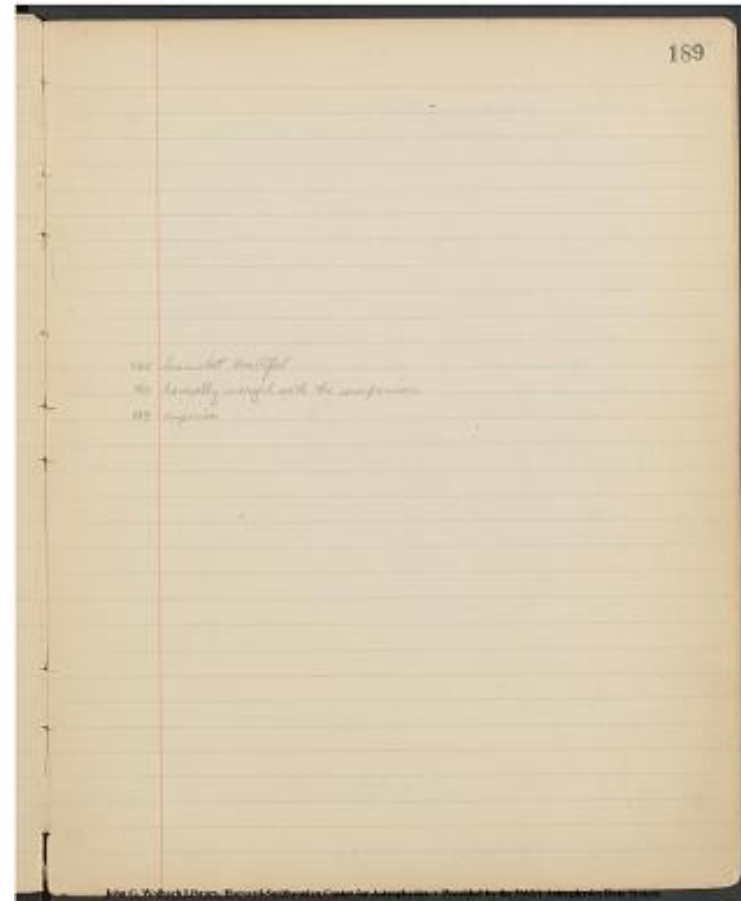
189

[[2 columns]]

|---|---|

|285 | Somewhat doubtful|  
|286 | Generally merged with the companion|  
|287 | Companion|

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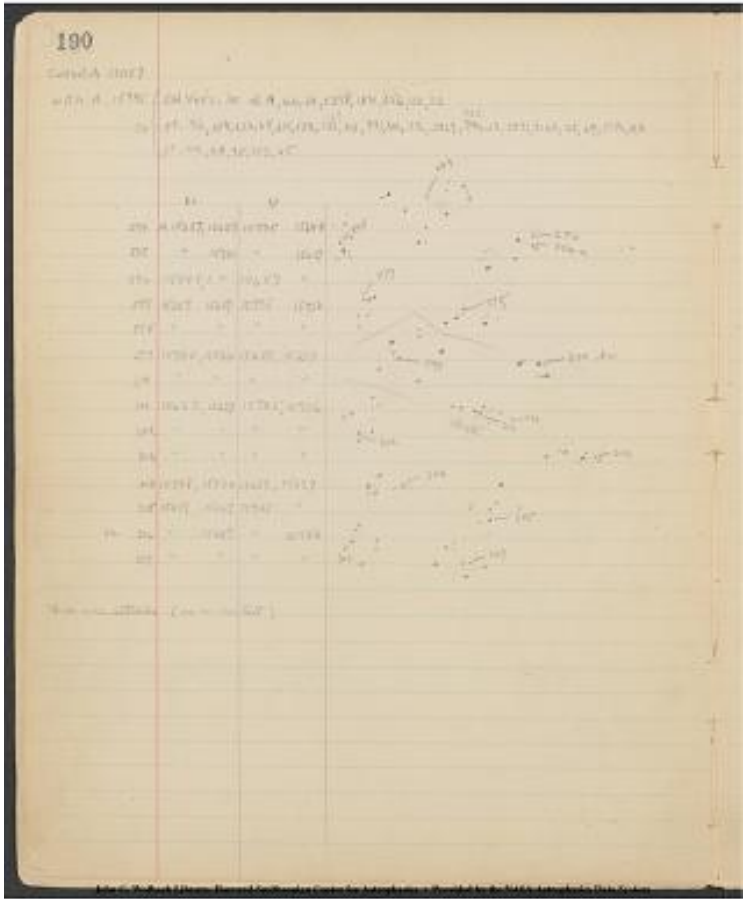
190  
ContactA 15657  
with A 15745

[[bracket]] 33  
Old Vars, br cl 14, 66, 64, v348, 184, 256, 43, 72  
ft. 86, 104, 250, 68, 231, 139, 131, 211, 99:, 40, IR, 3969,  
[[strikethrough]] IK[[/strikethrough]] 325, 124, 3871, 4160, 38, 69, HK,  
GX  
ft, 22, 44, 95, 283, 65

[[4 column table]]  
| br|ft| |  
|---|---|---|

|294|A 15657, 15637|15745 15644|[[image 294]]  
295|15657 15736|15637 15637|[[image 295]]  
296|15745,15636|15657 15637|[[image 296]]  
297|15657 15637|15745 15736|[[image 297]]  
298|15657|15637|[[image 298]]  
299|15745, 15736|15657, 15637|[[image 299]]  
300|15745, 15736|15657, 15637|[[image 300]]  
301|15657, 15637|15745, 15736|[[image 301]]  
302|15657, 15637|15745, 15736|[[image 301]]  
303|15657, 15637|15745, 15736|[[image 203]]  
304|15745, 15736|15657, 15637|[[image 304]]  
305|15657 15665|15745 15637|[[image 305]]  
306|15657 15637|15745 15736|[[image 306]]  
307|15657 15637|15745 15736|[[image 307]]  
|three more asteroids|(one on contact)| |

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191

[[2 columns]]  
|---|---|

|296 | see p. 172 var 145|

| | May be IQ|

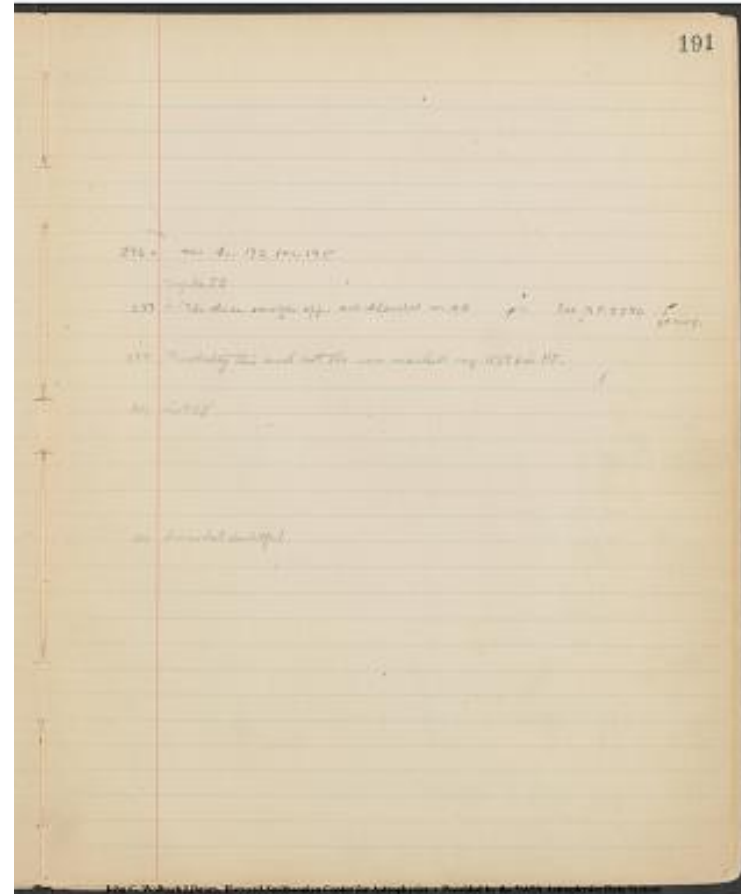
|297 | - The three images opp. are blended on MF [[image]] see MF9740  
[[image]] ft comp.|

|299 | Probably this and not the one marked on 15578 is H.T.|

|301 | in M28|

|306 | Somewhat doubtful|

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Contact A15657 with A13569

Old Vars:

br.

68,64,61,160,177,91,182,142,268,256,184,IT,131,3966,3968,284,GZ,G

P

ft. 56,303,[[strike

through]]256,95,305,295,V348,DY,231,307,65,250,HV3973,139,15,cl13,  
104,298,38

[addition equation]62+56=118

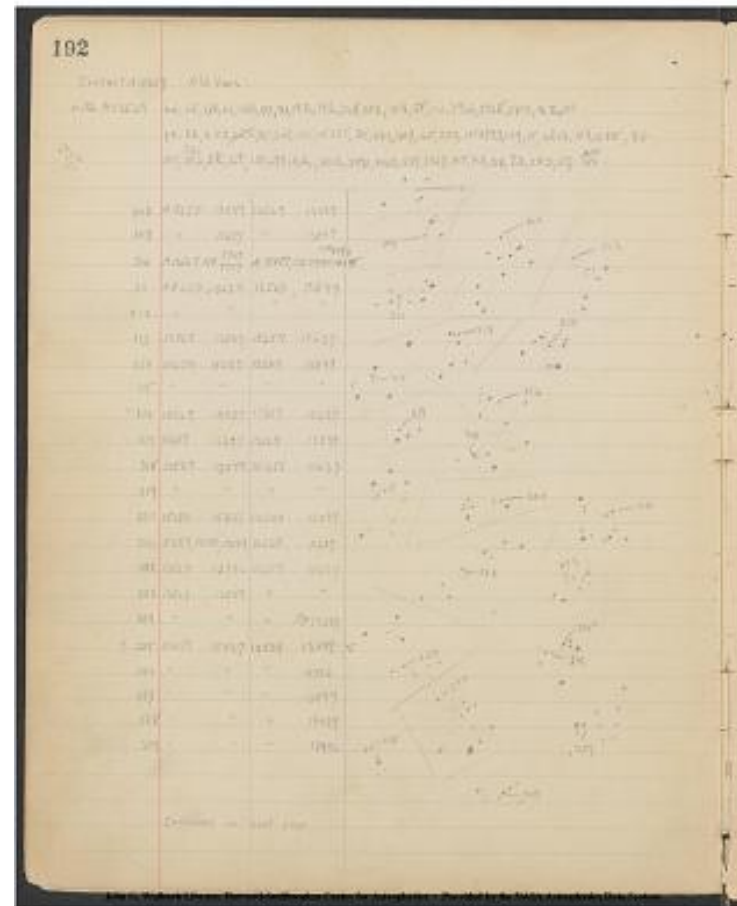
145,[[above]]G:296,IR,LT,180,99,GQ,302,3971,3969,297,3967,HT,HO,  
GX,73,283,157,[[above]]A28 cl4

[[4 column table]]

|                                     |                     |               |                        |               |           |
|-------------------------------------|---------------------|---------------|------------------------|---------------|-----------|
| 308                                 | A15657              | 13849         | 13569                  | 14029         | [[image]] |
| 309                                 | A15657              | 15637         | 13569                  | 13849         | [[image]] |
| 310                                 | A13569 MF           | [[above]]9769 | 9759                   | A15657, 13849 |           |
| [[above]]MF8770 MF12195   [[image]] |                     |               |                        |               |           |
| 311                                 | A15657,15637        | 13569, 13849  | [[image]]              |               |           |
| 312                                 | A15657,15637        | 13569   13849 | [[image]]              |               |           |
| 313                                 | 13569 13849         | 15657 15637   | [[image]]              |               |           |
| 314                                 | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| 315                                 | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| ?316                                | 13569 14029         | 15657 15637   | [[image]]              |               |           |
| 317                                 | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| 318                                 | 13569 13849         | 15657 15637   | [[drawing star field]] |               |           |
| 319                                 | 13569 13849         | 15657 15637   | [[image]]              |               |           |
| 320                                 | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| 321                                 | 15657, 14029, 13849 | 13569 15637   | [[image]]              |               |           |
| 322                                 | 13569 12996         | 15657 15637   | [[image]]              |               |           |
| 323                                 | 13569 13849         | 15657 15637   | [[image]]              |               |           |
| 324                                 | 13569 13849         | 15657 MF14587 | [[image]]              |               |           |
| ?325                                | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| 326                                 | 15657 15637         | 13569 12996   | [[image]]              |               |           |
| 327                                 | 15657 15637         | 13569 13849   | [[image]]              |               |           |
| 328                                 | 15657 15637         | 13569 14029   | [[image]]              |               |           |
| 329                                 | 15657 15637         | 13569 12996   | [[image]]              |               |           |

Continued on next page


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30, MWF 193 #IV  
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193

316 Somewhat doubtful


317  A 13569

321 a little doubtful

324 eclipsing

325 Somewhat doubtful small range,

326 Small range

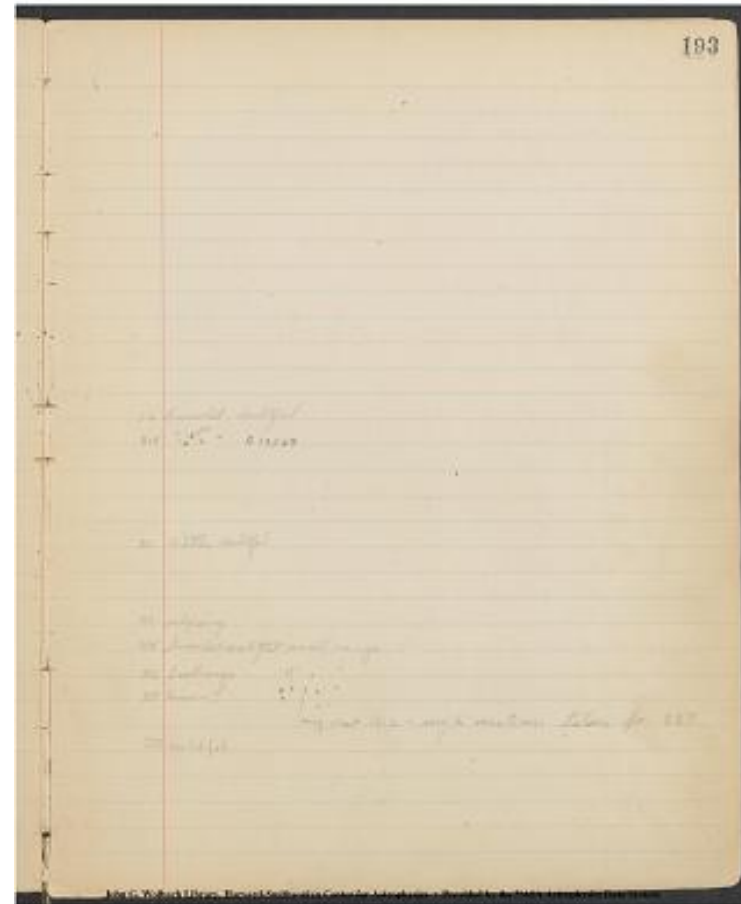
327 known? 

mco.g. about 16.2 - may be sometimes tolseu for 327

329 doubtful

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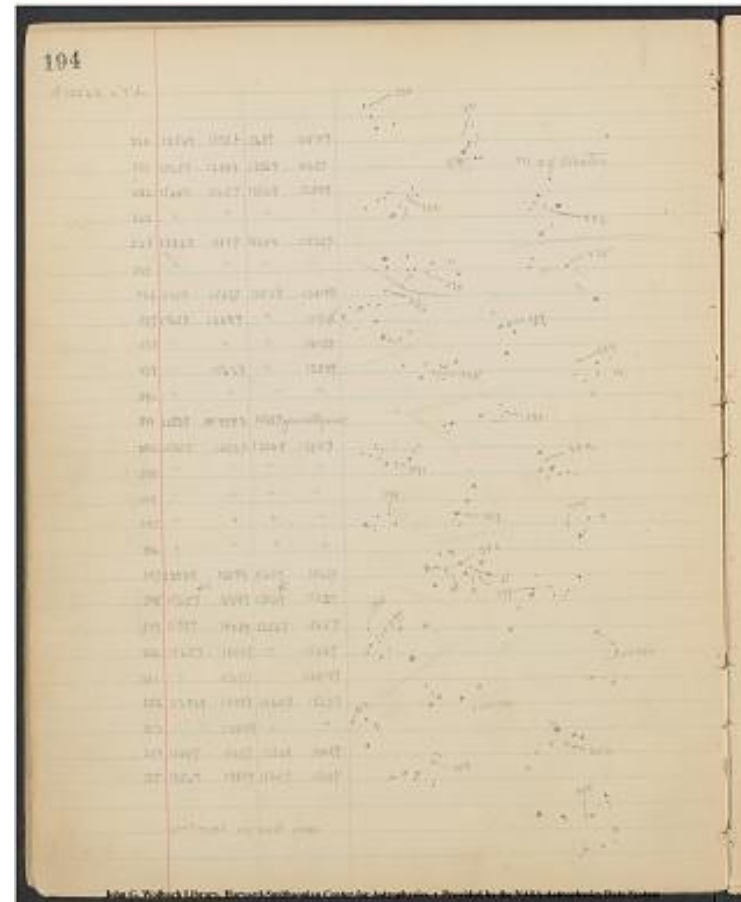
194  
A13569 c'+d.

4 column table

|                       |       |          |       |                |           |
|-----------------------|-------|----------|-------|----------------|-----------|
| 330                   | 13569 | 15727    | 15657 | 13849          | [[image]] |
| 331                   | 15657 | 13849    | 13569 | 15637          | [[image]] |
| 332                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 333                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 334                   | 13569 | 13849    | 15657 | 15637          | [[image]] |
| 335                   | 13569 | 13849    | 15657 | 15637          | [[image]] |
| 336                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 337                   | 15657 | 13849    | 13569 | 15718          | [[image]] |
| 338                   | 15657 | 13849    | 13569 | 14029          | [[image]] |
| 339                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 340                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 341                   | 13569 | MF9793   | 15657 | generally inv. | [[image]] |
| 342                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 343                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 344                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 345                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 346                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 347                   | 13569 | 13849    | 15657 | 15637          | [[image]] |
| [[bracket 348 & 349]] |       |          |       |                |           |
| 348                   | 15657 | M? 15549 | 13569 | M? 15637       | [[image]] |
| 349                   | 15557 | 14029    | 13569 | 15657          | [[image]] |
| 350                   | 15657 | 14029    | 13569 | 15637          | [[image]] |
| 351                   | 15657 | 15637    | 13569 | 13849          | [[image]] |
| 352                   | 13569 | 14029    | 15657 | 15637          | [[image]] |
| 353                   | 13569 | 13849    | 15657 | 15637          | [[image]] |
| 354                   | 15657 | 15637    | 15657 | 15637          | [[image]] |
| 355                   | 13569 | 13849    | 15657 | 15637          | [[image]] |

[[continued on next page]]

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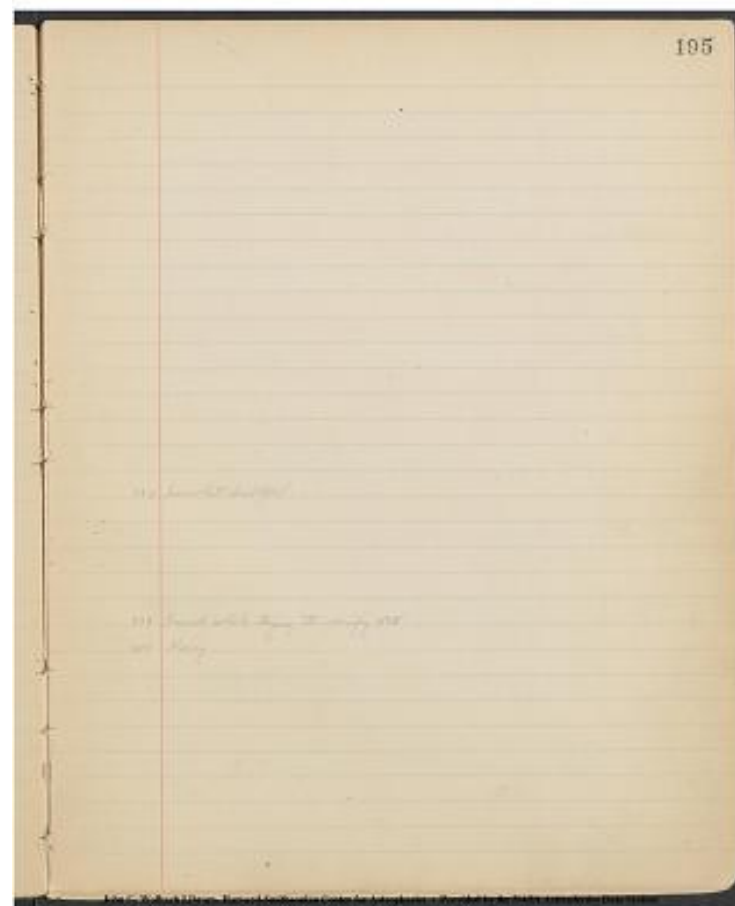
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195

344 somewhat doubtful

349 Found while trying to verify 348

350 blurry



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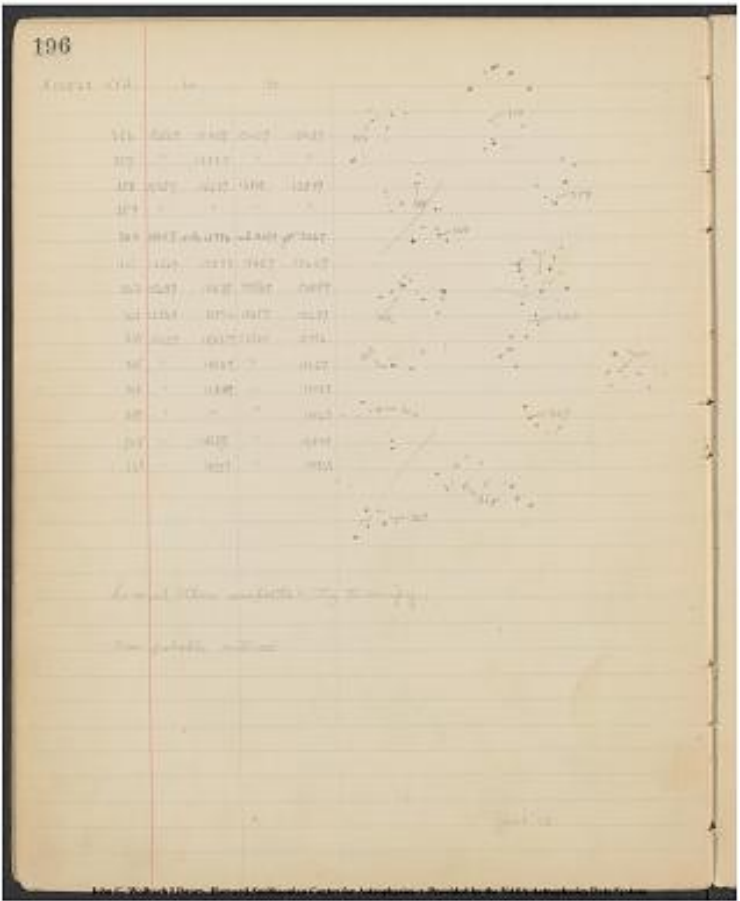
[[4 Columned Table]]

|        |        |          |           |         |
|--------|--------|----------|-----------|---------|
| A13569 | c't'd. | br       | ft.       |         |
| 356    | 13569  | 14029    | 15657     | 15637   |
| 357    | 13569  | 13849    | 15657     | 15637   |
| 358    | 15657  | 15637    | 13569     | 13849   |
| 359    | 15657  | 15637    | 13569     | 13849   |
| 360    | 15657  | vbr12996 | mb14029   | ft13569 |
| 361    | 13569  | 13849    | 15657     | 15637   |
| 362    | 15657  | 15637    | 13569     | 13849   |
| 363    | 13569  | 12996    | 15657     | 15637   |
| 364    | 15657  | 15637    | 13569     | 12996   |
| 365    | 15657  | 14029    | 13569     | 15637   |
| 366    | 15657  | 13849    | 13569     | 14029   |
| 367    | 15657  | 13849    | 13569     | 15563   |
| 368    | 15657  | 15637    | 13569     | 13849   |
| 369    | 15657  | 15557    | 13569     | 12996   |
|        |        |          | [[image]] | 368     |
|        |        |          | [[image]] | 369     |

Several other suspects - try to verify,

One probable asteroid

June 6 '32  
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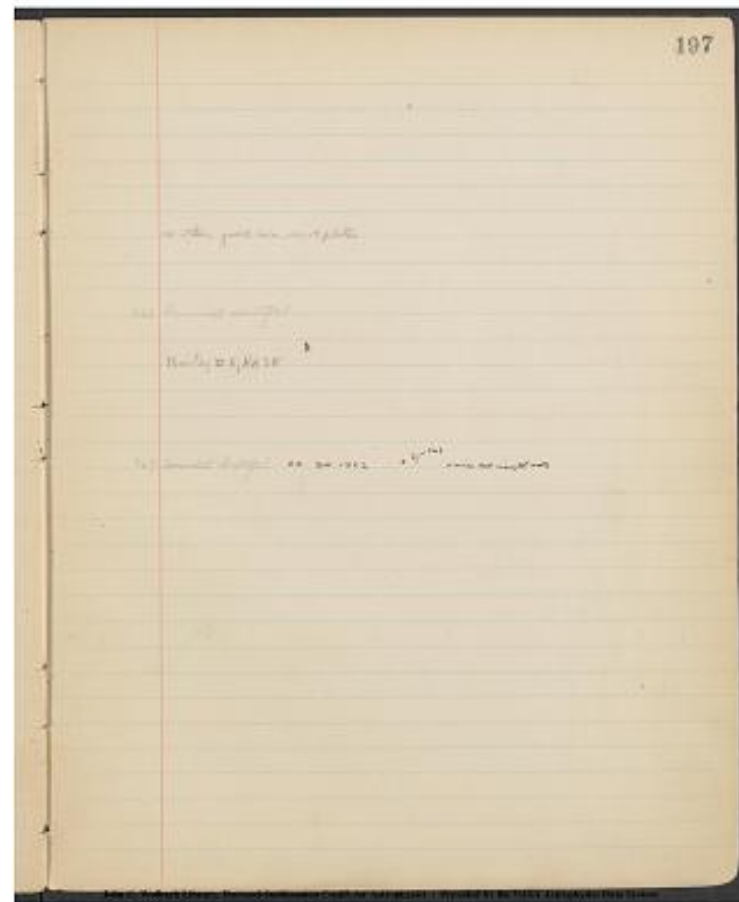
197

no other good min, on A plates

363 somewhat doubtful

Bailey #8, HA38

369 somewhat doubtful OK DH 1963  369 varies bet neighbors



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198

Contact A15657 with A 14027

41,158,[[?]],IM,3966,169,3972,269,28  
br.61,64,324,319,H.V.3973,310,4160,256,284,362,HK,3977,92,148,FM,I  
K,149,145,252,318,90,89,16  
ft.  
114,v348,104,113,250,130,231,331,295,320,317,308,65,139,305,336,33  
8,86,339,358,188,298  
302,327,328,361,73,359,HO,GQ,82,296,303,45,[[?]],3971,21,346,GX,G  
Z,304,283,342,141,234,219  
74,127,152,100,199,3961,GS,M28,I2

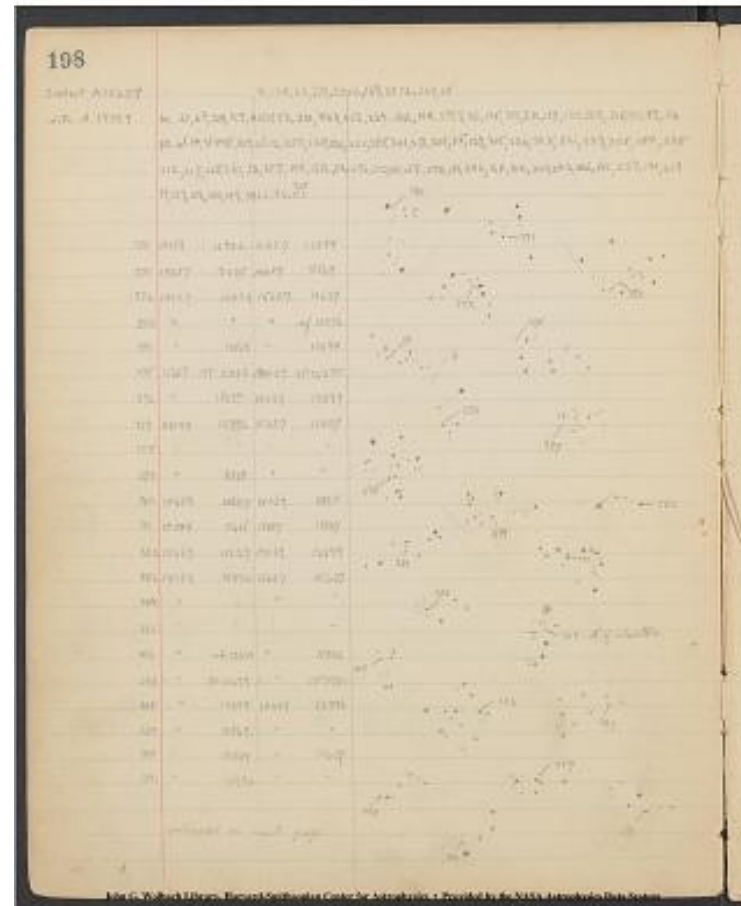
[[4 columned table]]

---|---|---|---

|     |       |         |        |         |           |     |
|-----|-------|---------|--------|---------|-----------|-----|
| 370 | 14029 | 12996   | 15657  | 13849   | [[image]] | 370 |
| 371 | 15657 | 15637   | 14029  | 15569   | [[image]] | 371 |
| 372 | 14029 | 13849   | 15657  | 15637   | [[image]] | 372 |
| 373 | 14029 | 13849   | 15657  | mf12796 | [[image]] |     |
| 374 | 14029 | 13569   | 15657  | 13849   | [[image]] |     |
| 375 | 15657 | MF13482 | A14029 | MF13390 | [[image]] |     |
| 376 | 15657 | 15637   | 14029  | 13849   | [[image]] |     |
| 377 | 14029 | 12996   | 15657  | 15637   | [[image]] |     |
| 378 | 14029 | 12996   | 15657  | 15637   | [[image]] |     |
| 379 | 14029 | 13569   | 15657  | 15637   | [[image]] |     |
| 380 | 15657 | 15637   | 14029  | 13569   | [[image]] |     |
| 381 | 14029 | 15625   | 15657  | 15637   | [[image]] |     |
| 382 | 15657 | 15637   | 14029  | 13849   | [[image]] |     |
| 383 | 14029 | 12996   | 15657  | 15627   | [[image]] |     |
| 384 | 14029 | 12996   | 15657  | 15627   | [[image]] |     |
| 385 | 14029 | 12996   | 15657  | 15627   | [[image]] |     |
| 386 | 14029 | mb13849 | 15657  | 12996   | [[image]] |     |
| 387 | 14029 | MF11677 | A15657 | MF8770  | [[image]] |     |
| 388 | 14029 | 13849   | 15637  | 12996   | [[image]] |     |
| 389 | 14029 | 15569   | 15637  | 12996   | [[image]] |     |
| 390 | 14029 | 13569   | 15637  | 15637   | [[image]] |     |
| 391 | 14029 | 12996   | 15637  | 15637   | [[image]] |     |


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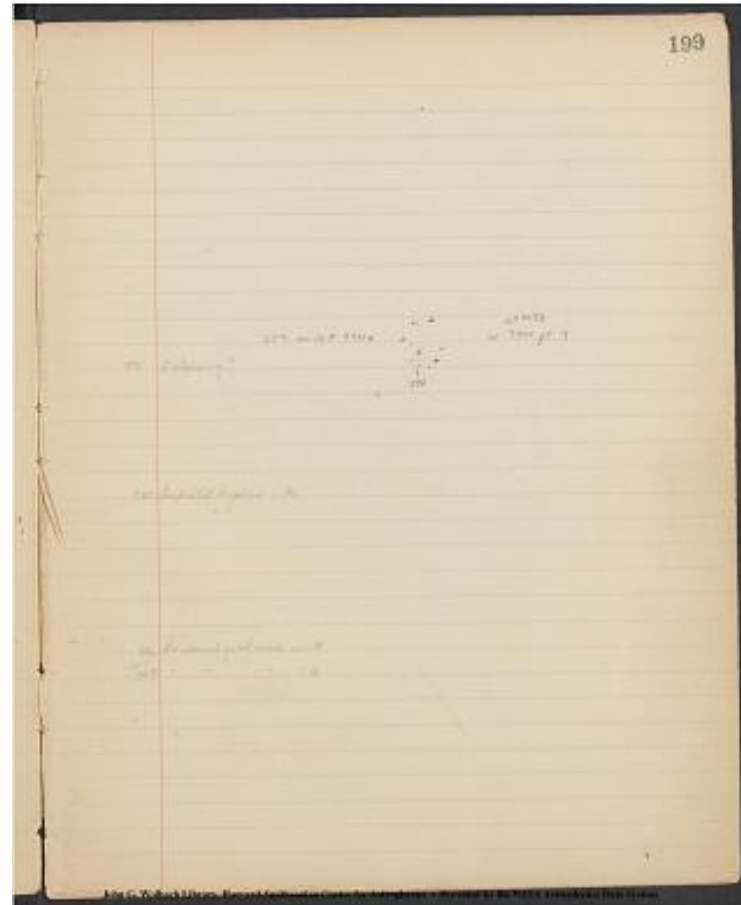
199

374 on MF 9740  374 MF 9672  
br 9740 ft 9  
375 Eclipsing?

380 Suspected before, br.

386 No second good max on A  
387 No second good max on A

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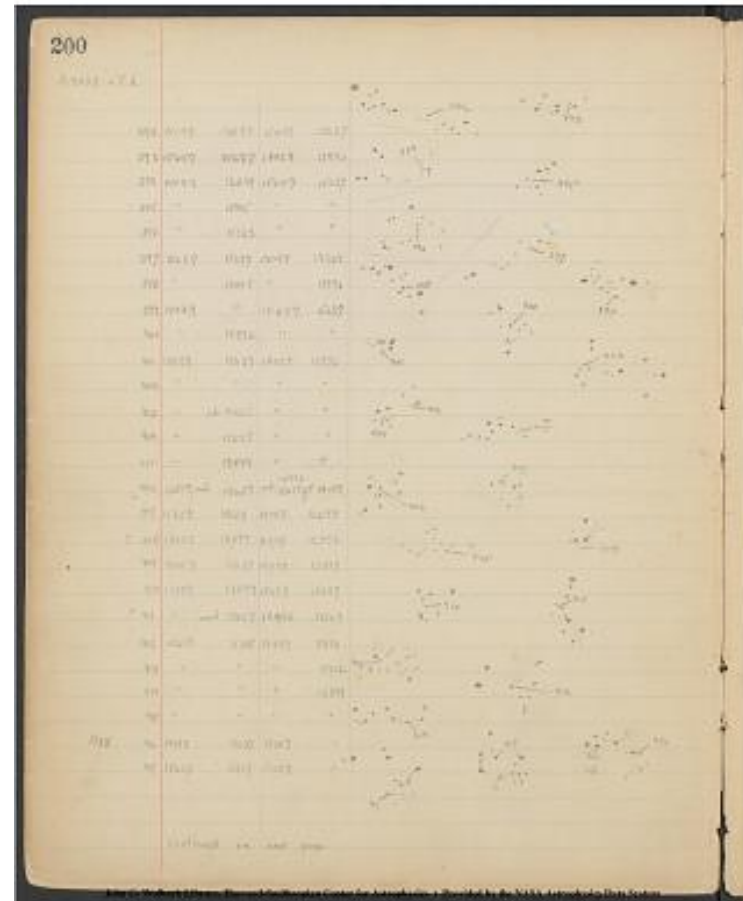


200  
A14029 c't'd

392|14029 13849|15657 15637|[[image]] 392|  
393|15657 15637|14029 12996|[[image]] 393|  
394|14029 13849|15657 15637|[[image]] 394|  
? 395|14029 15745|15657 15637|[[image]] 395|  
396|14029 15563|15657 15637|[[image]] 396|  
397|15657 15637|14029 13569|[[image]] 397|  
398|15657 13849|14029 12996|[[image]] 398|  
399|14029 13849|15657 15637|[[image]] 399|  
400|14029 12996|15657 15637|[[image]] 400|  
401|15657 15637|14029 12996|[[image]] 401|  
402|15657 15637|14029 12996|[[image]] 402|  
403|15657 mbl15625|14029 12996|[[image]] 403|  
404|15657 15637|14029 12996|[[image]] 404|  
405|15657 13849|14029 12996|[[image]] 405|  
406|13849mb 15657|mb122996 15637ft 14029|[[image]] 406|  
407|15657 15637|14029 13849|[[image]] 407|  
? 408|14029 13849|15657 12996|[[image]] 408|  
409|15657 15637|14029 13849|[[image]] 409|  
410|14029 13849|15657 15637|[[image]] 410|  
? 411|14029 med15657|12996 13569|[[image]] 411|  
412|15657 15637|14029 12996|[[image]] 412|  
413|15657 15637|14029 15712|[[image]] 413|  
414|15657 15637|14029 13849|[[image]] 414|  
415|15657 15637|14029 13849|[[image]] 415 72 A|  
M28 416|14029 15637|15657 13849|[[image]] 416 ? 301 cl|  
417|15657 15637|14029 13849|[[image]] 417|

Continued on next page

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201

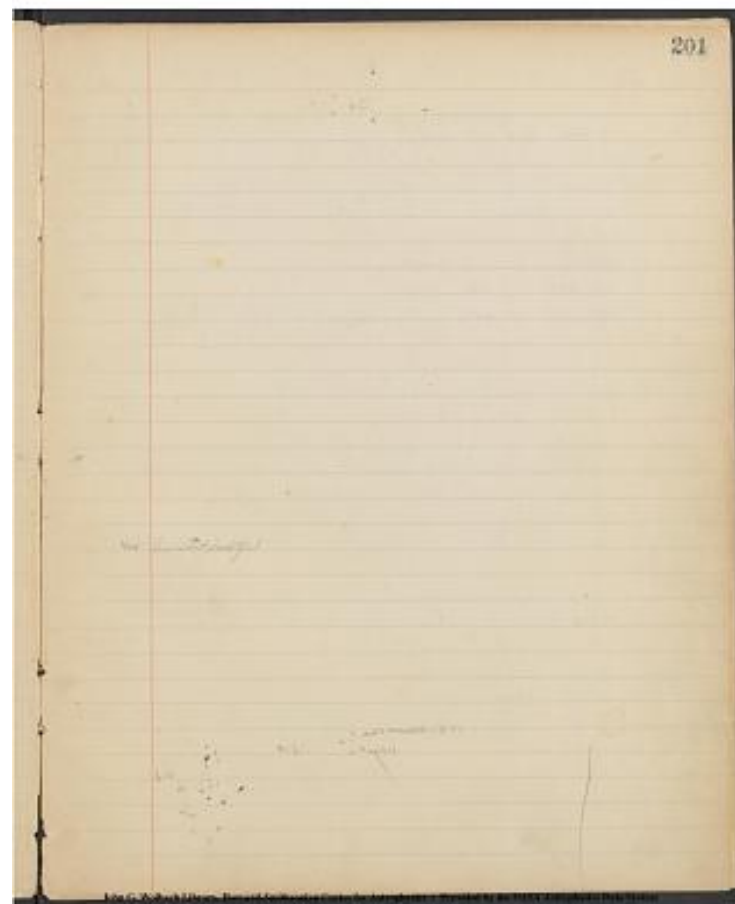
[[image]]

408 Somewhat doubtful

416 [[image 416]] not a variable (F. P.) 416

417 [[image 417]]

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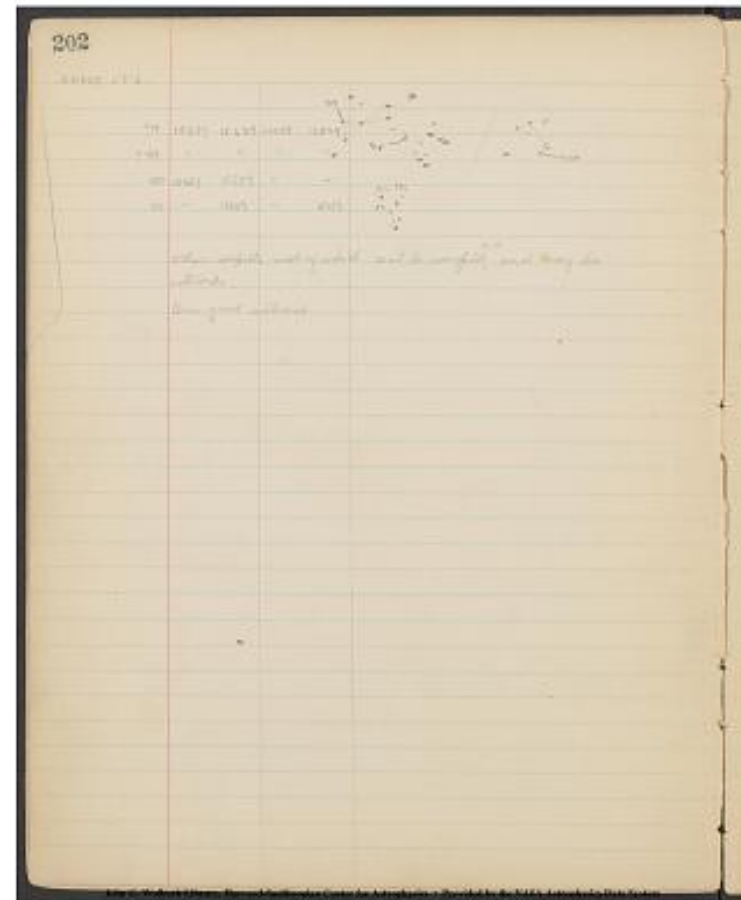
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202  
A14029 c't'd.

[[4 Columned Table]]  
|---|---|---|---|

|418|15657|15637|14029|13849|[[image]] 418 |  
|?419|15657|15637|14029|13849|[[image]] 419 |  
|420|15657|15557|14029|13849|[[image]] 420 |  
|421|15657|15367|14029|15557|[[image]] 421 |

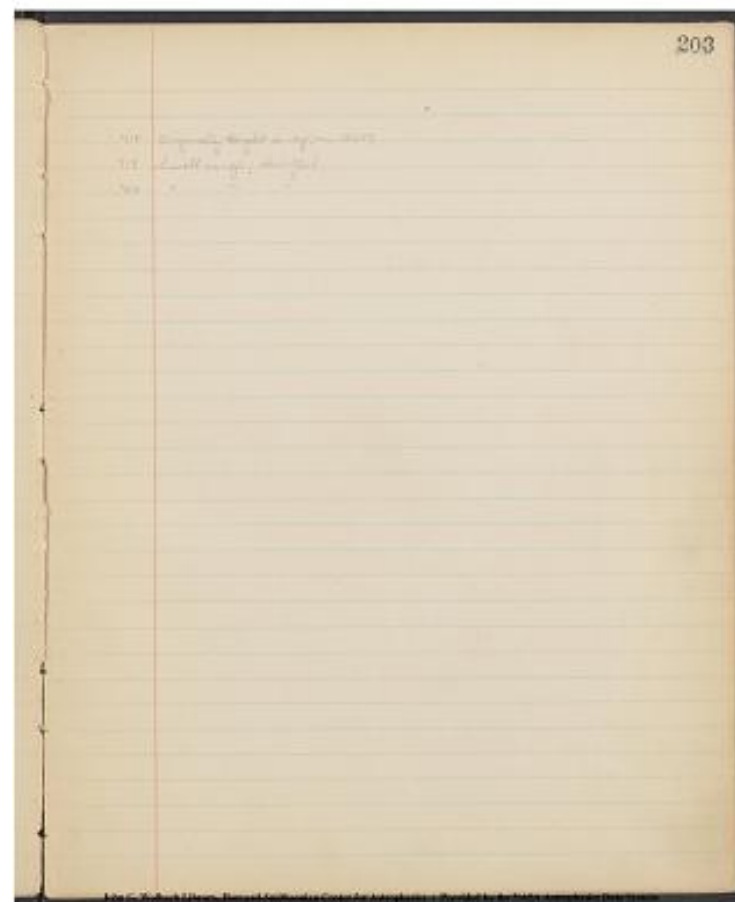
Other suspects, most of which can't be verified or A and may be asteroids. One good asteroids.



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203

418 Originally thought a def. on 15657  
419 Small range; doubtful  
420 Small range; doubtful



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204

[2 column chart]

ContactA15657|br1 141., 284, 256, 356, 318, l6, 324, 16, 43, 300, 28, 184, HZ|

[4 column chart]

with A15563|ft 403, 311, 309, 407|340, 405, 406, 358,|304, l14, l7, 182, IR, 4160, 296, lK, 297, 21, 301, 365, HO, 367, 153|

233, 305, 231, 1728, l4, 1728, l6, |234 |

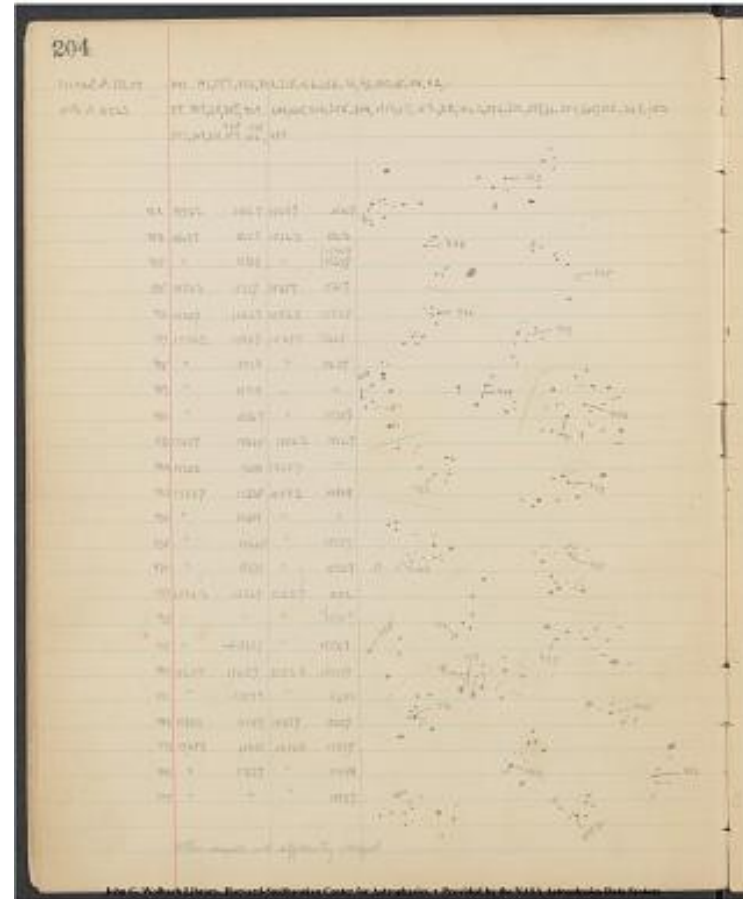
[4 column chart]

---|---|---|---

|     |       |         |       |          |           |           |     |
|-----|-------|---------|-------|----------|-----------|-----------|-----|
| 422 | 15563 | 15569   | 15657 | 15637    | [[IMAGE]] | 422       |     |
| 423 | 15567 | 15637   | 15563 | 15613    | [[IMAGE]] | 423       |     |
| 424 | 15657 | 15569   | 15563 | {15557   | 15637     | [[IMAGE]] | 424 |
| 425 | 15563 | 15637   | 15657 | 15617    | [[IMAGE]] | 425       |     |
| 426 | 15657 | 15637   | 15563 | 15569    |           |           |     |
| 427 | 15563 | 15569   | 15657 | 15665    |           |           |     |
| 428 | 15563 | 45724   | 15657 | 15637    |           |           |     |
| 429 | 15563 | 15718   | 15657 | 15637    |           |           |     |
| 430 | 15563 | 15569   | 15657 | 15557    |           |           |     |
| 431 | 15657 | 15665   | 15563 | 15569    |           |           |     |
| 432 | 15563 | 15644   | 15657 | 15569    |           |           |     |
| 433 | 15657 | 15665   | 15563 | 15569    |           |           |     |
| 434 | 15657 | 15644   | 15563 | 15569    |           |           |     |
| 435 | 15657 | 15665   | 15563 | 15557    |           |           |     |
| 436 | 15657 | 15637   | 15563 | 15569    |           |           |     |
| 437 | 15563 | 15569   | 15657 | 15712    |           |           |     |
| 438 | 15563 | 15569   | 15657 | mb15712? |           |           |     |
| 439 | 15563 | mb15625 | 15657 | 15569    |           |           |     |
| 440 | 15657 | 15637   | 15563 | 15569    |           |           |     |
| 441 | 15657 | 15594   | 15563 | 15644    |           |           |     |
| 442 | 15563 | 15557   | 15657 | 15637    |           |           |     |
| 443 | 15657 | 15665   | 15563 | 15557    |           |           |     |
| 444 | 15657 | 15637   | 15563 | 15594    |           |           |     |
| 445 | 15657 | 15637   | 15563 | 15557    |           |           |     |

Other suspects not sufficiently verified

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205

eclipsing?  
426 Doubtful

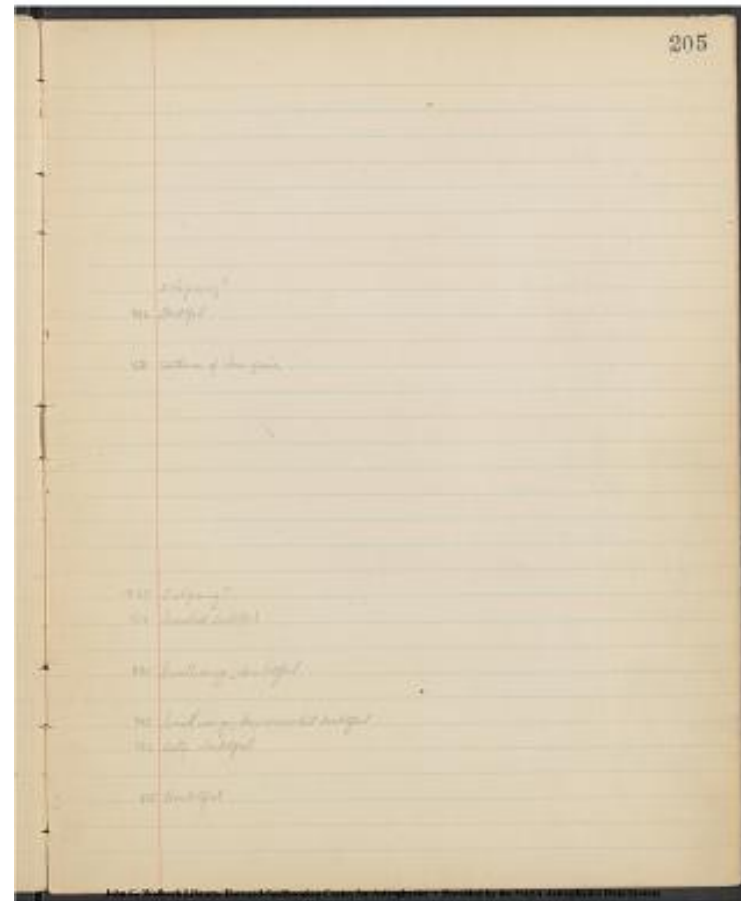
428 Southern of close pair

437 Eclipsing?  
438 Somewhat doubtful

440 Small range; doubtful

442 Small range; br, somewhat doubtful  
443 Quite doubtful

445 Doubtful



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206

Contact A 15657 with A 15718

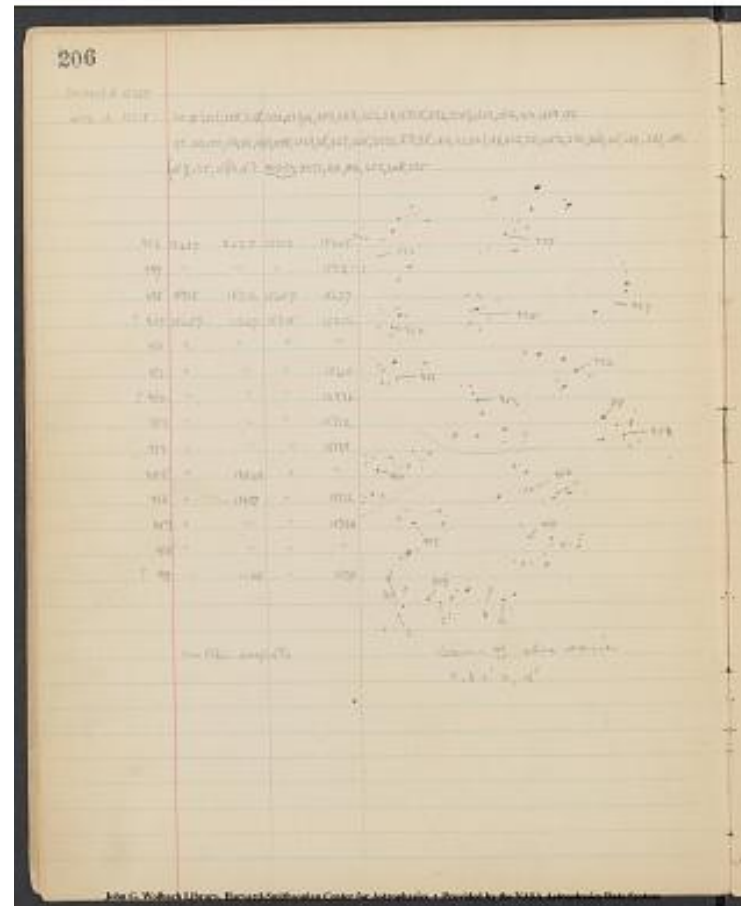
125, 184, 324, 358, 318, 392, 299, 41, 304, 284, 256, 74, V348, 296,  
4160, 114, 12, 103, 254, 72  
ft. 104, 250, 133, 211, 424, 298, 3969, 38, 327, 308, 3973, IR, 95, 180,  
21, 301, 86, 303, 357, 283, 340, 364, 65, 139, 321, 182  
{17, 154, l(13,8) m2814, 3971, GX, HK, 354, 305, 325

[[four columned table]]

---|---|---|---|  
446|15657 15637|15718 15665|[[image]] 446|  
447|15657 15637|15718 15712|[[image]] 447|  
448|15718 15712|15657 15637|[[image]] 448|  
? 449|15657 15637|15718 15712|[[image]] 449|  
450|15657 15637|15718 15712|[[image]] 450|  
451|15657 15637|15718 15665|[[image]] 451|  
? 452|15657 15637|15718 12996|[[image]] 452|  
453|15657 15637|15718 15712|[[image]] 453|  
454|15657 15637|15718 15724|[[image]] 454 87|  
455|15657 13569|15718 15724|[[image]] 455|  
456|15657 15637|15718 15712|[[image]] 456|  
457|15657 15637|15718 15724|[[image]] 457|  
458|15657 15637|15718 15724|[[image]] 458|  
? 459|15657 15615|15718 15730|[[image]] d1 d c 459 c1 b a

Two other suspects    seems a also varies  
a, b c' c, d'

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30, MWF 193 #IV  
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207

[[2 columns]]

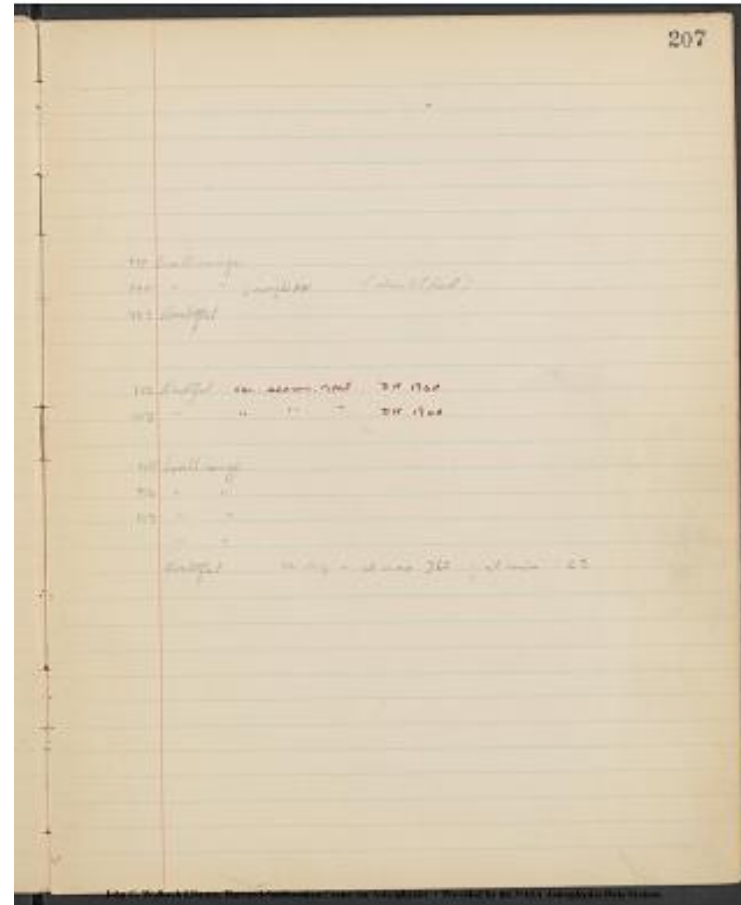
---|---

447 | Small range  
448 | Small range; maybe HW (doubtful)  
449 | Doubtful

452 | Doubtful var. seems. real DH 1960  
453 | Doubtful var. seems. real DH 1960

455 | Small range  
456 | Small range  
457 | Small range  
    | Small range  
    | Doubtful ok 1963 - at max  $[[?]]b \pm$ ; at min  $C \pm$

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208

Contact A15657

A 15730

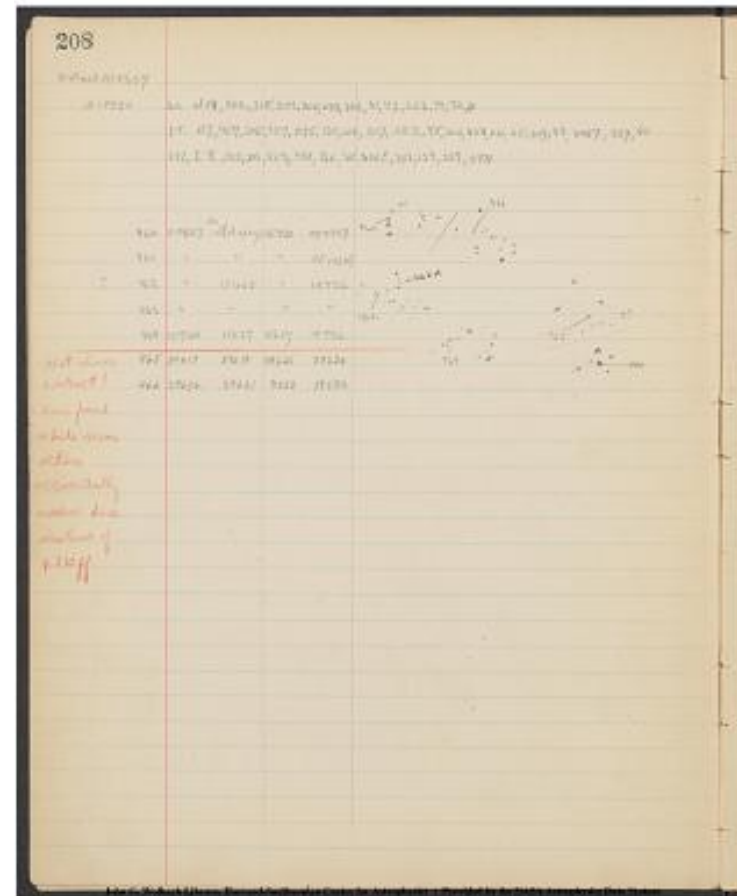
br. cl14, 422, 318, 304, 300, 299, 392, 41, 43, 256, 74, 92, 60

ft. cl7, 457, 308, 459, 295, 130, 104, 317, 283, 95, 301, 424, 211, 65,  
307, 44, 3967, 327, 40  
297, IR, 303, 86, 453, 450, Gx, 38, 368?, 351, 139, 287, 3971

[[4 column table]]

|---|---|---|---|

|460|A15657^[[br]] all except|15730 MF9759|[[image]] 460|  
|461|A15657^[[br]] all except|15730 MF14387|[[image]] 461|  
|462|A15657 15665|15730 15736|[[image]] 462 |[[image]]462A|  
|463|A15657 15665|15730 15736|[[image]] 463|  
|464|15730 15637|15657 15736|[[image]] 464|  
[[left margin]]Not above contact! Vars found while [[?]]. others  
accidentally added here instead of f210ff [[/left margin]]  
|465|39617 39618|39625 39626|  
|466|39632 39631|9550 19582|[[image 466]]



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209

[[2 columns]]

---|---

160 | Eclipsing

461 | Eclipsing?

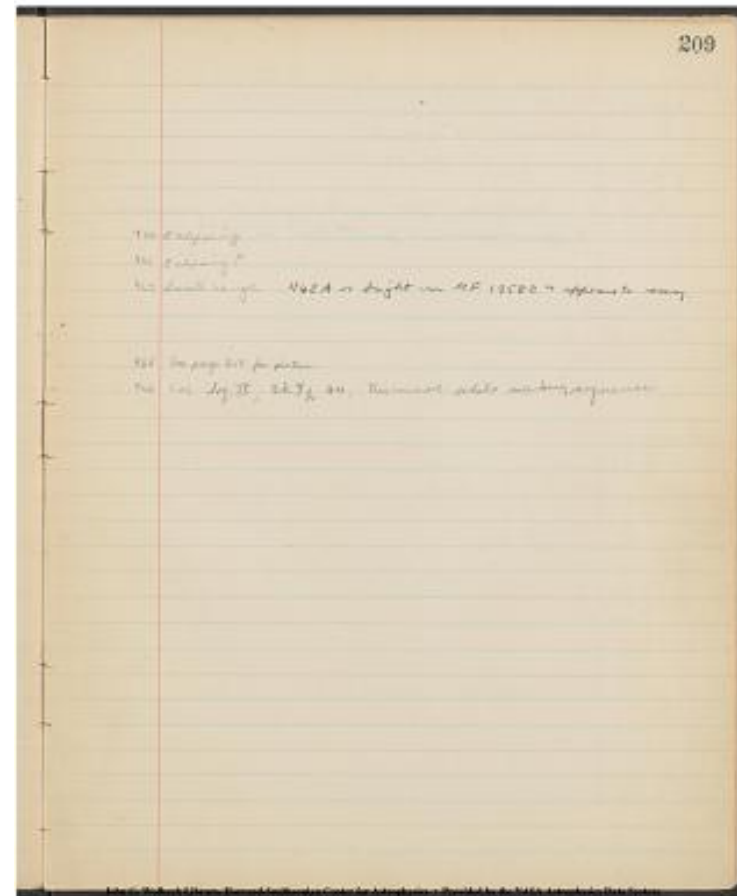
462 | Small range 462A in bright in MF 19582 & appears to vary.

465 | See page 210 for picture

466 | See Seq. IX, Bk X p 44. Disconnect while making sequence

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210

Contact A 12439 Compared January 1954 by Mrs. G von Schwerin  
A12062

GvS Rediscovered DH.#16, 104, 145  
old IK, KN, CI 14

One suspicious object (prob. defect but promising)  
K N Sgr. rediscovered for 1st time in this survey.

Contact MF 39625

MF 39617 No rediscoveries.

[[3 column table]]

GvS|br|ft|

|---|---|---|

465 | 39617, 39618 | 39625, 39626 [[image 465]]

Contact MF39625

|MF39264| No new variables| |

|GvS|one bright asteroid near open cluster.| |

466| See Prec. Page | |

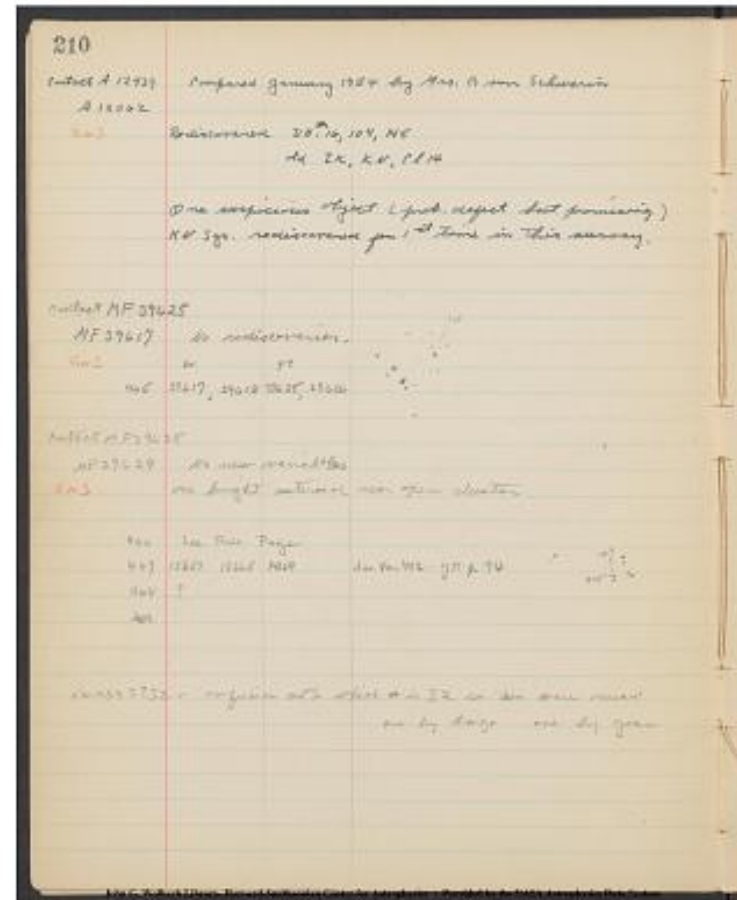
467| 15657 15665 14029|See Var 402 - gH p94 [[image]]467|

468| ? | |

[[~~469~~]]|[[~~469~~]]| | |

Var 469 = ?12 - confusion as to which \* is 12 so two were meas' one by  
Marge one by Jean.

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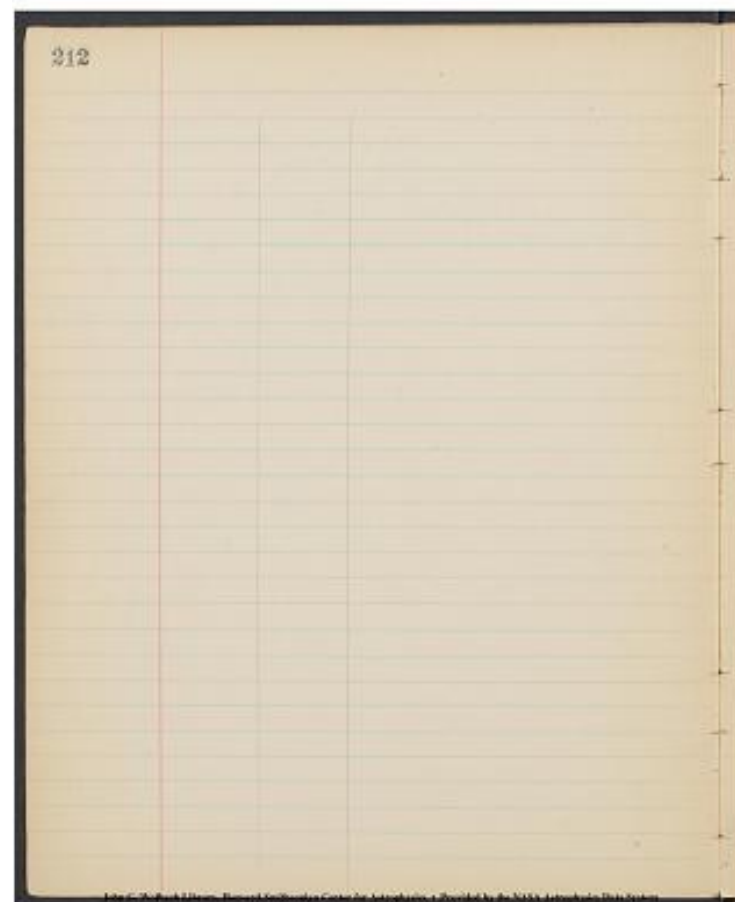
211

467 marked on A15736

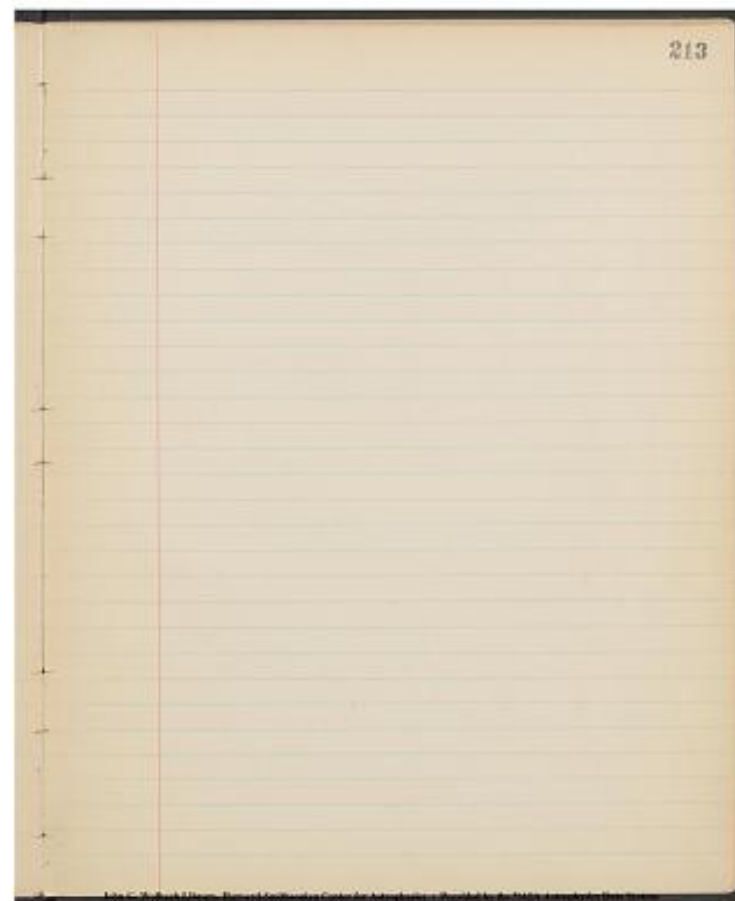
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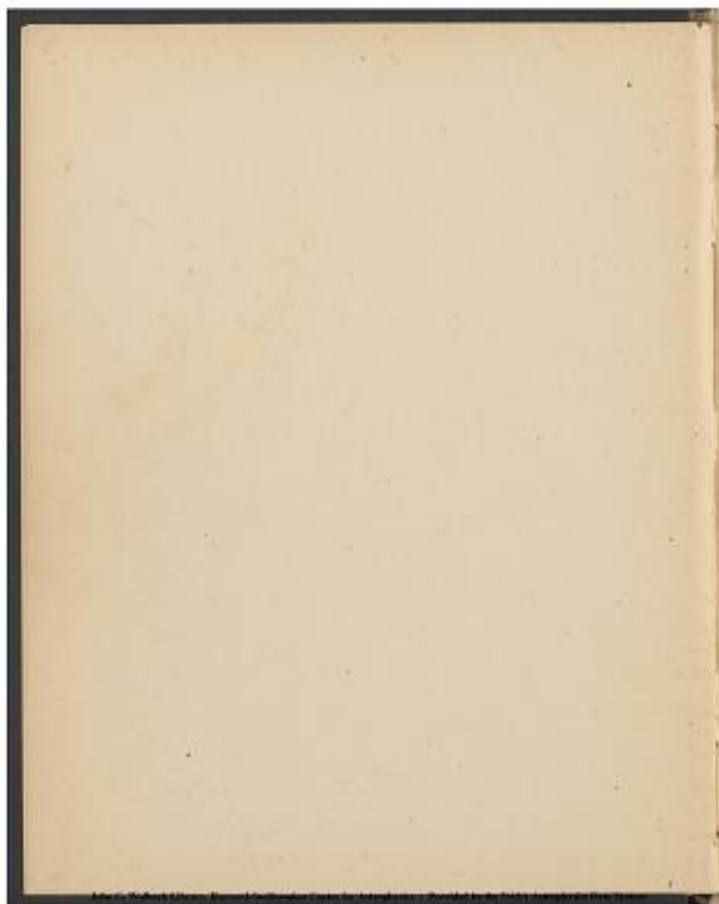


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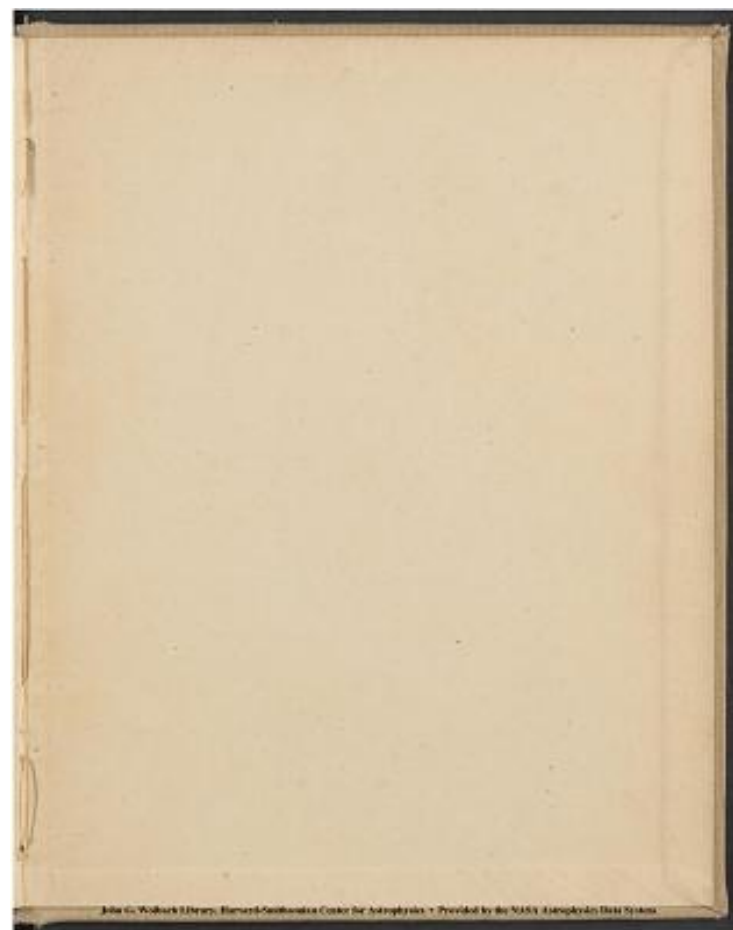
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30, MWF 193 #IV  
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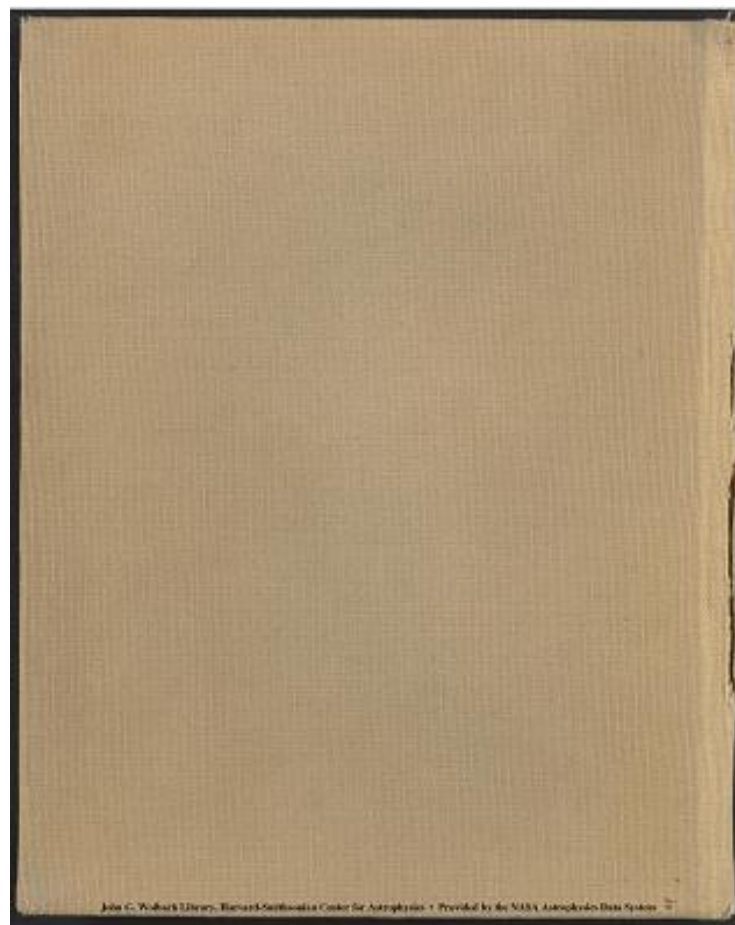
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[[back cover page]]



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