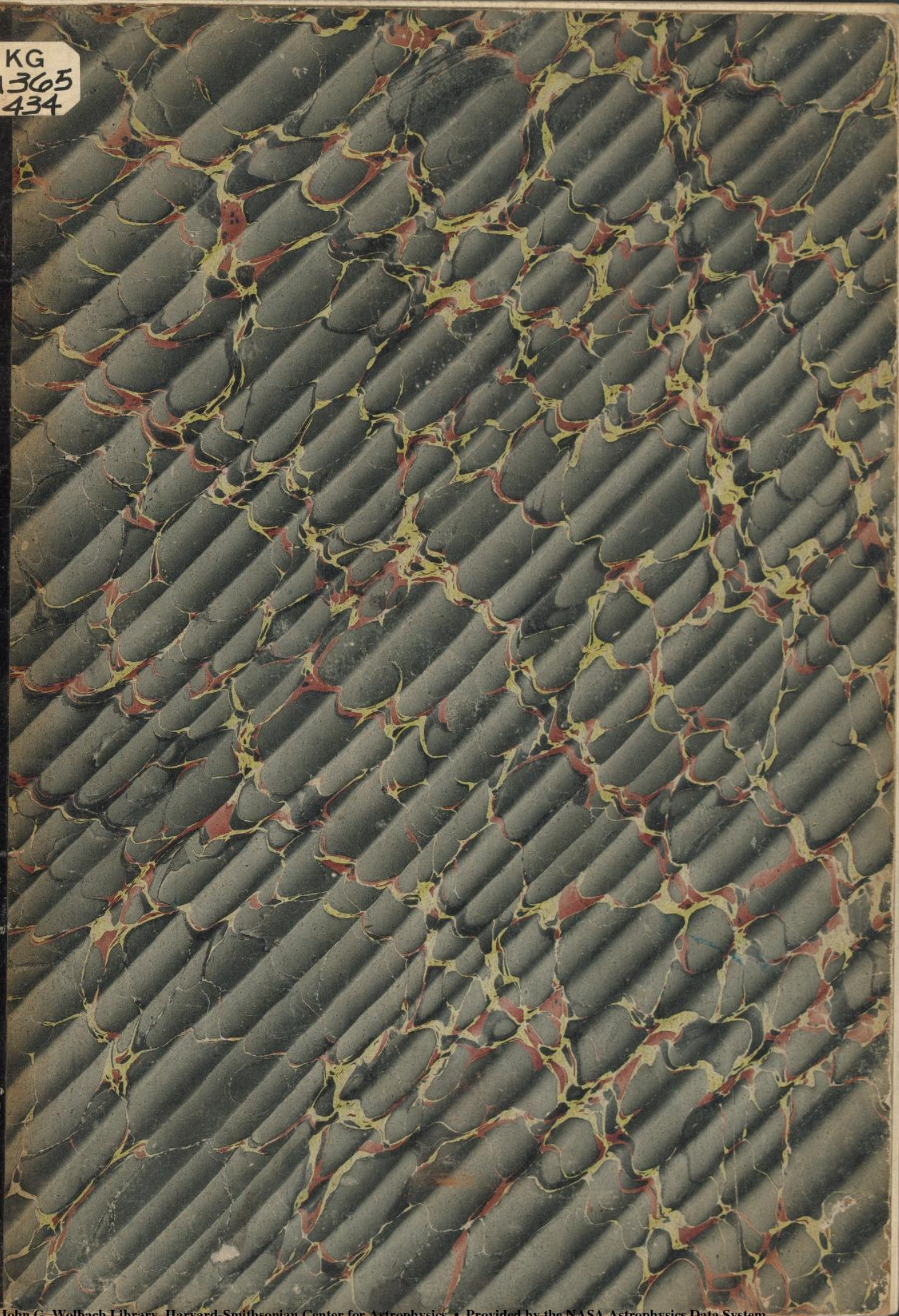


KG  
11365  
434



KG11365.43H

pg







K611365.434



11420  
 Agglaunder Zones from 50° to 53°  
 51° to 52°

|                |      |      |     |
|----------------|------|------|-----|
| 27 50          | 33   | 35   | 102 |
| 50° to 51°     |      |      |     |
| 27 52          | 50   | 129  |     |
| 38 11          | 122  |      |     |
| 38 48          | 20.7 |      |     |
| 41 15          | 49.5 |      |     |
| 41 25          | 38.3 |      |     |
| 42 19          | 53.7 |      |     |
| 42 58          | 52.9 |      |     |
| 42 58          | 49   | 50.9 |     |
| 44 47          | 50   | 15.8 |     |
| 50 11          | 21.2 |      |     |
| 50 21          | 17.4 |      |     |
| 51 45          | 5.7  |      |     |
| 51 59          | 49   | 48.6 |     |
| 51 59          | 49   | 48.7 |     |
| 52 00          | 5.4  |      |     |
| 53 22          | 4.8  |      |     |
| 54 4           | 49   | 46.6 |     |
| 54 28          | 51.1 |      |     |
| 54 58          | 46   | 45.5 |     |
| 54 57          | 28.7 |      |     |
| 55 7           | 31.9 |      |     |
| 55 19          | 54.2 |      |     |
| 55 44          | 34.5 |      |     |
| 55 52          | 35.3 |      |     |
| 56 58          | 7.9  |      |     |
| 22 1 25        | 55.9 |      |     |
| 1 33           | 56.9 |      |     |
| 1 53           | 59.2 |      |     |
| 2 1            | 58.8 |      |     |
| 2 35           | 46.5 |      |     |
| 2 56           | 49   | 55.0 |     |
| 3 2            | 0.2  |      |     |
| 3 3            | 0.2  |      |     |
| 3 42           | 21.3 |      |     |
| 4 10           | 18.2 |      |     |
| 4 26           | 1.7  |      |     |
| 4 42           | 54.0 |      |     |
| 5 2            | 2.7  |      |     |
| 5 3            | 49   | 51.8 |     |
| 5 2            | 88.6 |      |     |
| 8 39           | 6.4  |      |     |
| 8 54           | 42.1 |      |     |
| 9 12           | 37.7 |      |     |
| 11 8           | 56.0 |      |     |
| 11 28          | 31.5 |      |     |
| 11 38          | 16.0 |      |     |
| 13 42          | 49   | 51.5 |     |
| 13 58          | 55.1 |      |     |
| 15 20          | 39.9 |      |     |
| 16 14          | 25.9 |      |     |
| 16 58          | 45.1 |      |     |
| 17 18          | 49.2 |      |     |
| 17 20          | 23.9 |      |     |
| 18 40          | 28.2 |      |     |
| 19 39          | 23.4 |      |     |
| 19 38          | 49   | 56.1 |     |
| 19 58          | 30.1 |      |     |
| 21 24          | 41.3 |      |     |
| 21 35          | 46.3 |      |     |
| 22 04          | 30.1 |      |     |
| 22 43          | 42.1 |      |     |
| 23 37          | 33.7 |      |     |
| 24 59          | 49   | 48.1 |     |
| 25 60          | 11.8 |      |     |
| 25 14          | 26.9 |      |     |
| 25 30          | 49   | 56.3 |     |
| 26 48          | 49   | 46.2 |     |
| 30 26          | 14.6 |      |     |
| 30 44          | 11.9 |      |     |
| 30 45          | 28.1 |      |     |
| (30 45) + 11.8 |      |      |     |
| 31 2           | 49   | 46.9 |     |
| 31 66          | 15.6 |      |     |
| 38 29          | 50   | 10   |     |
| 38 38          |      | 16   |     |
| 39 15          |      | 24   |     |
| 41 45          | X    | 45   |     |
| 41 52          | X    | 42   |     |
| 42 46          | X    | 57   |     |
| 43 25          | X    | 56   |     |
| 44 25          |      | 55   |     |
| 45 14          | X    | 19   |     |
| 50 38          | X    | 25   |     |
| 50 48          | X    | 21   |     |
| 52 13          | X    | 9    |     |
| 52 27          | X    | 52   |     |
| 52 27          |      | 52   |     |
| 52 28          |      | 9    |     |
| 53 50          | X    | 8    |     |
| 54 32          |      | 50   |     |
| 54 56          | X    | 55   |     |
| 55 23          |      | 49   |     |
| 55 26          | X    | 32   |     |
| 55 36          | X    | 35   |     |
| 55 48          |      | 58   |     |
| 56 13          | X    | 35   |     |
| 56 21          | X    | 39   |     |
| 57 27          |      | 6    |     |
| 1 54           | X    | 60   |     |
| 2 02           |      | 61   |     |
| 2 22           | X    | 43   |     |
| 2 31           | X    | 55   |     |
| 3 05           | X    | 50   |     |
| 3 26           | X    | 62   |     |
| 3 32           | X    | 4    |     |
| 3 33           | X    | 4    |     |
| 4 12           | X    | 25   |     |
| 4 20           | X    | 27   |     |
| 4 56           | X    | 5    |     |
| 5 12           | X    | 58   |     |
| 5 32           | X    | 7    |     |
| 5 34           | X    | 65   |     |
| 8 33           | X    | 49   |     |
| 9 10           | X    | 5    |     |
| 9 28           | X    | 46   |     |
| 9 43           | X    | 41   |     |
| 11 39          | X    | 54   |     |
| 11 59          | X    | 36   |     |
| 12 09          | X    | 17   |     |
| 14 13          | X    | 56   |     |
| 14 26          |      | 62   |     |
| 15 51          | X    | 44   |     |
| 16 46          | X    | 30   |     |
| 17 30          | X    | 49   |     |
| 17 50          | X    | 55   |     |
| 17 52          | X    | 29   |     |
| 19 17          | X    | 31   |     |
| 19 46          | X    | 37   |     |
| 20 00          | X    | 67   |     |
| 20 27          | X    | 35   |     |
| 21 56          | X    | 46   |     |
| 22 07          | X    | 51   |     |
| 22 36          | X    | 35   |     |
| 23 16          | X    | 47   |     |
| 24 09          | X    | 38   |     |
| 25 31          | X    | 53   |     |
| 25 32          | X    | 24   |     |
| 25 47          | X    | 30   |     |
| 26 04          |      | 61   |     |
| 27 22          | X    | 51   |     |
| 31 00          | X    | 22   |     |
| 31 14          | X    | 17   |     |
| 31 19          | X    | 23   |     |
| 31 19          | X    | 17   |     |
| 31 36          |      | 51   |     |
| 32 20          | X    | 20   |     |

500 to 510

|    |     |    |       |
|----|-----|----|-------|
| 22 | 32  | 46 | 205   |
|    | 32  | 58 | 199   |
|    | 33  | 33 | 46.8  |
|    | 33  | 46 | 43.4  |
|    | 39  | 9  | 19.2  |
|    | 34  | 16 | 33.4  |
|    | 34  | 30 | 56.1  |
|    | 36  | 24 | 41.6  |
|    | 36  | 43 | 39.2  |
|    | 37  | 24 | 49.5  |
|    | 37  | 40 | 34.1  |
|    | 38  | 44 | 39.6  |
|    | 38  | 56 | 29.6  |
|    | 41  | 2  | 20.4  |
|    | 42  | 10 | 4.9   |
|    | 42  | 34 | 8.9   |
|    | 43  | 21 | 51.3  |
|    | 43  | 30 | 28.6  |
|    | 43  | 55 | 16.9  |
|    | 44  | 10 | 46.6  |
|    | 45  | 50 | 49.5  |
|    | 46  | 46 | 41.5  |
|    | 47  | 59 | 4.4   |
|    | 48  | 8  | 9.2   |
|    | 48  | 51 | 47.3  |
|    | 49  | 20 | 49.5  |
|    | 50  | 28 | 49.5  |
|    | 50  | 39 | 47.2  |
|    | 51  | 41 | 49.5  |
|    | 51  | 43 | 45.8  |
|    | 51  | 48 | 49.5  |
|    | 52  | 5  | 34.5  |
|    | 52  | 7  | 24.4  |
|    | 52  | 41 | 40.2  |
|    | 53  | 48 | 10.1  |
|    | 54  | 44 | 30.6  |
|    | 55  | 20 | 47.4  |
|    | 55  | 21 | 44.3  |
|    | 56  | 4  | 25.9  |
|    | (56 | 4  | 25.9) |
|    | 56  | 4  | 55.9  |
|    | 56  | 28 | 57.4  |
|    | 57  | 21 | 39.9  |
|    | 57  | 50 | 51.4  |
|    | 59  | 32 | 34.9  |
|    | 59  | 35 | 49.5  |
| 23 | 0   | 21 | 45.8  |
|    | 1   | 13 | 20.5  |
|    | 1   | 51 | 12.2  |
|    | 2   | 7  | 41.4  |
|    | 2   | 14 | 6.3   |
|    | 2   | 21 | 52.6  |
|    | 2   | 26 | 10.4  |
|    | 4   | 6  | 43.0  |
|    | 4   | 14 | 49.5  |
|    | 4   | 21 | 40.5  |
|    | 7   | 20 | 37.2  |
|    | 8   | 29 | 49.5  |
|    | 9   | 12 | 49.5  |
|    | 10  | 10 | 49.5  |
|    | 10  | 29 | 49.5  |
|    | 14  | 29 | 25.1  |
|    | 15  | 24 | 10.9  |
|    | 15  | 36 | 10.0  |
|    | 16  | 00 | 1.1   |
|    | 17  | 40 | 7.5   |
|    | 22  | 5  | 46.9  |
|    | 22  | 26 | 49.5  |
|    | 23  | 04 | 6.5   |
|    | 23  | 20 | 19.4  |
|    | 23  | 60 | 49.5  |
|    | 24  | 7  | 49.5  |
|    | 24  | 8  | 13.3  |
|    | 25  | 5  | 7.4   |

|    |     |        |      |
|----|-----|--------|------|
|    | 500 | to 510 |      |
| 25 | 53  | 49     | 57.9 |
| 27 | 8   |        | 30.1 |
| 27 | 26  |        | 57.1 |
| 28 | 9   |        | 23.4 |
| 28 | 39  | 42     | 25.7 |
| 28 | 54  |        | 15.2 |
| 29 | 47  |        | 5.4  |
| 30 | 12  |        | 3.6  |
| 30 | 25  |        | 22.0 |
| 31 | 54  |        | 47.8 |
| 34 | 59  |        | 33.1 |
| 35 | 41  |        | 1.9  |
| 37 | 4   |        | 2.2  |
| 38 | 18  | 49     | 47.1 |
| 38 | 27  | 49     | 54.6 |
| 39 | 10  |        | 21.8 |
| 43 | 9   |        | 31.2 |
| 43 | 19  |        | 27.8 |
| 43 | 41  |        | 35.5 |
| 45 | 39  |        | 37.9 |
| 45 | 40  |        | 38.8 |
| 47 | 24  |        | 50.8 |
| 48 | 40  |        | 36.8 |
| 54 | 36  |        | 35.6 |
| 56 | 24  |        | 66.9 |
| 56 | 38  |        | 39.3 |
| 23 | 58  | 05     | 29.3 |

|   |    |    |         |
|---|----|----|---------|
| N |    |    |         |
| 0 | 0  | 24 | 5 31.4  |
|   | 1  | 47 | 32.6    |
|   | 1  | 54 | 49 53.6 |
|   | 2  | 35 | 17.9    |
|   | 3  | 40 | 49 52.4 |
|   | 4  | 9  | 49 45.0 |
|   | 4  | 59 | 57.2    |
|   | 6  | 24 | 44.3    |
|   | 6  | 28 | 43.1    |
|   | 9  | 22 | 23.3    |
|   | 11 | 27 | 52.3    |
|   | 11 | 55 | 47.6    |
|   | 14 | 50 | 19.1    |
|   | 15 | 25 | 46.3    |
|   | 16 | 50 | 41.7    |
|   | 19 | 10 | 35.3    |
|   | 19 | 22 | 2.4     |
|   | 23 | 53 | 51.3    |
|   | 24 | 21 | 68.8    |
|   | 24 | 34 | 47.7    |
|   | 25 | 56 | 34.8    |
|   | 26 | 18 | 49.9    |
|   | 26 | 32 | 58.3    |
|   | 27 | 10 | 47.1    |
|   | 27 | 32 | 54.2    |
|   | 29 | 18 | 21.6    |
|   | 29 | 24 | 25.3    |
|   | 29 | 41 | 24.0    |
|   | 30 | 00 | 31.3    |
|   | 30 | 23 | 9.5     |
|   | 30 | 23 | 25.5    |
|   | 31 | 12 | 49 53.8 |
|   | 31 | 33 | 49 57.4 |
|   | 32 | 9  | 7.1     |
|   | 38 | 47 | 49 49.9 |
|   | 43 | 48 | 57.8    |
|   | 43 | 59 | 49 54.4 |
|   | 44 | 15 | 0.4     |
|   | 45 | 15 | 49 58.1 |
|   | 45 | 56 | 20.7    |
|   | 47 | 55 | 32.6    |
|   | 48 | 21 | 33.8    |
|   | 48 | 39 | 14.5    |
|   | 49 | 48 | 49 49.9 |
|   | 56 | 30 | 28.8    |



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| Star        | Newcomb   | A.H.             | B.A.A.           | P.V.             | Com. Temp.       | A.A.               | B.A.              | B.G.             | C.L.              | 1869              |                    |                        |                        |
|-------------|-----------|------------------|------------------|------------------|------------------|--------------------|-------------------|------------------|-------------------|-------------------|--------------------|------------------------|------------------------|
|             | Corrected | +01              | +02              | -02              | +03              |                    |                   |                  |                   |                   |                    |                        |                        |
| x Androm.   | 43.41     | 38 <sup>39</sup> | 38 <sup>40</sup> | 38 <sup>36</sup> | 38 <sup>40</sup> | +02 <sup>+2</sup>  | +01 <sup>+2</sup> | -1 <sup>+0</sup> | +05 <sup>+5</sup> | +01 <sup>+1</sup> | +0                 | 37.20 <sup>36.17</sup> |                        |
| x Pegani    | 35.70     | 70 <sup>71</sup> | 69 <sup>71</sup> | 76 <sup>74</sup> | 68 <sup>71</sup> | -01 <sup>+2</sup>  | -01 <sup>+2</sup> | -3 <sup>+0</sup> | -04 <sup>+0</sup> | -4 <sup>+1</sup>  | -01 <sup>+1</sup>  | -2                     | 29.52 <sup>29.16</sup> |
| x Arctis    | 54.33     | 32 <sup>33</sup> | 29 <sup>31</sup> | 35 <sup>35</sup> | 29 <sup>32</sup> | +00 <sup>+1</sup>  | +02 <sup>+1</sup> | +1 <sup>+0</sup> | +00 <sup>+0</sup> | +0 <sup>+0</sup>  | +01 <sup>+0</sup>  | +1                     | 47.56 <sup>47.56</sup> |
| x Arctis    | 32.27     | 23 <sup>24</sup> | 23 <sup>25</sup> | 27 <sup>25</sup> | 24 <sup>27</sup> | +03 <sup>+4</sup>  | +02 <sup>+0</sup> | +2 <sup>+0</sup> | +02 <sup>-1</sup> | -3 <sup>+0</sup>  | +00 <sup>+0</sup>  | +0                     | 25.98 <sup>25.26</sup> |
| x Tauri     | 31.23     | 23 <sup>24</sup> | 21 <sup>23</sup> | 25 <sup>23</sup> | 21 <sup>24</sup> | -01 <sup>+1</sup>  | +00 <sup>+1</sup> | +1 <sup>+0</sup> | +00 <sup>-1</sup> | +1 <sup>+1</sup>  | -01 <sup>-01</sup> | +0                     | 24.34 <sup>24.34</sup> |
| x Aurigae   | 9.74      | 75 <sup>76</sup> | 75 <sup>77</sup> | 81 <sup>79</sup> | 76 <sup>79</sup> | -02 <sup>-2</sup>  | -03 <sup>-2</sup> | -1 <sup>-0</sup> | -05 <sup>-1</sup> | -4 <sup>-0</sup>  | -05 <sup>-0</sup>  | -4                     | 0.92 <sup>0.92</sup>   |
| β Aurigae   | 20.33     | 34 <sup>35</sup> | 31 <sup>33</sup> | 39 <sup>37</sup> | 32 <sup>35</sup> | -02 <sup>-2</sup>  | -00 <sup>-0</sup> | +2 <sup>+0</sup> | -04 <sup>-1</sup> | -3 <sup>-1</sup>  | -02 <sup>-1</sup>  | -1                     | 14.56 <sup>14.56</sup> |
| β Tauri     | 8.34      | 30 <sup>31</sup> | 34 <sup>36</sup> | 34 <sup>32</sup> | 34 <sup>37</sup> | +02 <sup>+2</sup>  | -02 <sup>-2</sup> | +0 <sup>+0</sup> | +02 <sup>+1</sup> | +1 <sup>+0</sup>  | -03 <sup>-1</sup>  | -2                     | 0.76 <sup>0.76</sup>   |
| x Arctis    | 11.30     | 32 <sup>33</sup> | 30 <sup>32</sup> | 37 <sup>35</sup> | 30 <sup>33</sup> | -03 <sup>-3</sup>  | -02 <sup>-2</sup> | +0 <sup>+0</sup> | -05 <sup>-1</sup> | -4 <sup>-0</sup>  | -03 <sup>-1</sup>  | -2                     | 4.50 <sup>4.50</sup>   |
| x Com. May  | 27.84     | 92 <sup>93</sup> | 92 <sup>94</sup> | 84 <sup>84</sup> | 78 <sup>81</sup> | -09 <sup>-9</sup>  | -08 <sup>-3</sup> | -5 <sup>-0</sup> | +02 <sup>+1</sup> | +1 <sup>+0</sup>  | +03 <sup>+0</sup>  | +4                     | 22.69 <sup>22.69</sup> |
| x Cap. Mui  | 32.90     | 03 <sup>04</sup> | 98 <sup>00</sup> | 93 <sup>95</sup> | 84 <sup>87</sup> | -14 <sup>-13</sup> | -10 <sup>-3</sup> | -7 <sup>-0</sup> | -01 <sup>+0</sup> | +0 <sup>+0</sup>  | +03 <sup>+0</sup>  | +1                     | 26.60 <sup>26.60</sup> |
| β Serpens   | 25.17     | 19 <sup>20</sup> | 17 <sup>19</sup> | 20 <sup>18</sup> | 17 <sup>20</sup> | -03 <sup>-3</sup>  | -02 <sup>-0</sup> | +1 <sup>+0</sup> | -01 <sup>+0</sup> | +0 <sup>+0</sup>  | -03 <sup>-2</sup>  | -1                     | 17.50 <sup>17.50</sup> |
| x Hydrae    | 14.90     | 91 <sup>92</sup> | 85 <sup>87</sup> | 91 <sup>89</sup> | 86 <sup>89</sup> | -02 <sup>-2</sup>  | +03 <sup>-0</sup> | +0 <sup>+0</sup> | +01 <sup>+0</sup> | +2 <sup>+0</sup>  | +01 <sup>+0</sup>  | +3                     | 8.96 <sup>8.96</sup>   |
| x Leo.      | 30.00     | 04 <sup>05</sup> | 00 <sup>02</sup> | 01 <sup>00</sup> | 00 <sup>03</sup> | -05 <sup>-5</sup>  | -02 <sup>-2</sup> | +0 <sup>+0</sup> | +01 <sup>+0</sup> | +2 <sup>+0</sup>  | -03 <sup>-2</sup>  | -1                     | 23.58 <sup>23.58</sup> |
| β Leo.      | 28.71     | 71 <sup>72</sup> | 69 <sup>71</sup> | 72 <sup>70</sup> | 69 <sup>72</sup> | -01 <sup>-1</sup>  | +00 <sup>+0</sup> | +2 <sup>+0</sup> | +01 <sup>+0</sup> | +1 <sup>+0</sup>  | -01 <sup>-0</sup>  | +0                     | 22.56 <sup>22.56</sup> |
| x Virginis  | 23.94     | 99 <sup>00</sup> | 92 <sup>94</sup> | 98 <sup>96</sup> | 92 <sup>95</sup> | -06 <sup>-6</sup>  | +00 <sup>+0</sup> | +1 <sup>+0</sup> | -02 <sup>+0</sup> | -2 <sup>+0</sup>  | -01 <sup>-0</sup>  | +0                     | 17.62 <sup>17.62</sup> |
| x Bootis    | 46.70     | 68 <sup>69</sup> | 69 <sup>71</sup> | 69 <sup>67</sup> | 69 <sup>72</sup> | +01 <sup>+1</sup>  | -01 <sup>-0</sup> | -1 <sup>+0</sup> | +03 <sup>+1</sup> | +2 <sup>+0</sup>  | -02 <sup>-0</sup>  | -2                     | 41.22 <sup>41.22</sup> |
| x Lib.      | 44.72     | 71 <sup>72</sup> | 69 <sup>71</sup> | 72 <sup>70</sup> | 68 <sup>71</sup> | +00 <sup>+0</sup>  | +01 <sup>+0</sup> | +1 <sup>+0</sup> | +02 <sup>+1</sup> | +1 <sup>+0</sup>  | +01 <sup>+0</sup>  | +1                     | 33.08 <sup>33.08</sup> |
| x Coroneae  | 13.63     | 60 <sup>61</sup> | 61 <sup>63</sup> | 64 <sup>62</sup> | 60 <sup>63</sup> | +02 <sup>+2</sup>  | +00 <sup>+0</sup> | +0 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +00 <sup>+0</sup>  | +0                     | 8.52 <sup>8.52</sup>   |
| x Serpentis | 54.92     | 89 <sup>90</sup> | 90 <sup>92</sup> | 93 <sup>91</sup> | 88 <sup>91</sup> | +02 <sup>+2</sup>  | +00 <sup>+0</sup> | +0 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +01 <sup>+0</sup>  | +1                     | 48.98 <sup>48.98</sup> |
| x Scorpis   | 30.05     | 08 <sup>09</sup> | 04 <sup>06</sup> | 06 <sup>04</sup> | 03 <sup>06</sup> | -04 <sup>-4</sup>  | -01 <sup>+0</sup> | -2 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | -01 <sup>-0</sup>  | -2                     | 22.70 <sup>22.70</sup> |
| x Herc.     | 45.98     | 95 <sup>96</sup> | 96 <sup>98</sup> | 01 <sup>00</sup> | 94 <sup>97</sup> | +02 <sup>+2</sup>  | -00 <sup>+0</sup> | -2 <sup>+0</sup> | -02 <sup>+0</sup> | -2 <sup>+0</sup>  | +01 <sup>+0</sup>  | +0                     | 40.48 <sup>40.48</sup> |
| x Ophi.     | 56.84     | 79 <sup>80</sup> | 78 <sup>80</sup> | 82 <sup>80</sup> | 78 <sup>81</sup> | +04 <sup>+4</sup>  | +04 <sup>+2</sup> | +2 <sup>+1</sup> | +04 <sup>+3</sup> | +3 <sup>+1</sup>  | +03 <sup>+1</sup>  | +2                     | 57.22 <sup>57.22</sup> |
| x Lyrae.    | 34.27     | 24 <sup>25</sup> | 25 <sup>27</sup> | 28 <sup>26</sup> | 24 <sup>27</sup> | +02 <sup>+2</sup>  | +00 <sup>+0</sup> | -2 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +00 <sup>+0</sup>  | -1                     | 30.18 <sup>30.18</sup> |
| x Aquilae   | 7.62      | 59 <sup>60</sup> | 60 <sup>62</sup> | 63 <sup>61</sup> | 59 <sup>62</sup> | +02 <sup>+2</sup>  | +00 <sup>+0</sup> | -3 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +00 <sup>+0</sup>  | -2                     | 1.58 <sup>1.58</sup>   |
| x Aquilae   | 29.35     | 31 <sup>32</sup> | 33 <sup>35</sup> | 39 <sup>37</sup> | 33 <sup>36</sup> | +03 <sup>+3</sup>  | +03 <sup>+3</sup> | -3 <sup>+0</sup> | -02 <sup>+1</sup> | -3 <sup>+0</sup>  | -01 <sup>+0</sup>  | -3                     | 23.97 <sup>23.97</sup> |
| β Aquilae   | 58.61     | 56 <sup>57</sup> | 56 <sup>58</sup> | 63 <sup>61</sup> | 58 <sup>61</sup> | +04 <sup>+4</sup>  | +03 <sup>+3</sup> | +0 <sup>+0</sup> | +00 <sup>+0</sup> | -1 <sup>+0</sup>  | +02 <sup>+2</sup>  | +0                     | 22.66 <sup>22.66</sup> |
| x Capr.     | 53.75     | 70 <sup>71</sup> | 68 <sup>70</sup> | 76 <sup>74</sup> | 65 <sup>72</sup> | +04 <sup>+4</sup>  | +05 <sup>+3</sup> | +2 <sup>+1</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +03 <sup>+2</sup>  | +1                     | 47.02 <sup>47.02</sup> |
| x Loggini   | 2.10      | 06 <sup>08</sup> | 06 <sup>08</sup> | 06 <sup>04</sup> | 06 <sup>07</sup> | +03 <sup>+3</sup>  | +02 <sup>+0</sup> | -1 <sup>+0</sup> | +06 <sup>+5</sup> | +5 <sup>+0</sup>  | +01 <sup>+0</sup>  | -1                     | 57.97 <sup>57.97</sup> |
| x Aquarii   | 9.46      | 44 <sup>45</sup> | 39 <sup>41</sup> | 49 <sup>47</sup> | 40 <sup>43</sup> | +01 <sup>+1</sup>  | +05 <sup>+3</sup> | +2 <sup>+1</sup> | -01 <sup>+0</sup> | -2 <sup>+0</sup>  | +03 <sup>+2</sup>  | +1                     | 32.23 <sup>32.23</sup> |
| x Polaris   | 31.09     | 06 <sup>07</sup> | 06 <sup>08</sup> | 01 <sup>05</sup> | 03 <sup>03</sup> | +02 <sup>+2</sup>  | +02 <sup>+0</sup> | +4 <sup>+3</sup> | +04 <sup>+3</sup> | +3 <sup>+0</sup>  | +06 <sup>+5</sup>  | +4                     | 24.34 <sup>24.34</sup> |
| x Regani    | 20.19     | 16 <sup>17</sup> | 14 <sup>16</sup> | 20 <sup>18</sup> | 14 <sup>17</sup> | +02 <sup>+2</sup>  | +03 <sup>+0</sup> | +0 <sup>+0</sup> | +01 <sup>+0</sup> | +0 <sup>+0</sup>  | +02 <sup>+0</sup>  | +1                     | 19.11 <sup>19.11</sup> |
|             |           |                  |                  |                  |                  | +42                | +38               | +40              | +27               | +31               |                    |                        | 20                     |
|             |           |                  |                  |                  |                  | -53                | -32               | -26              |                   |                   |                    |                        | 23                     |
|             |           |                  |                  |                  |                  |                    |                   |                  |                   |                   |                    |                        | 43                     |

W.A.

S.1160.

B.N.A.  
1160

$\begin{array}{rcll} 000 & +020 & -020 & +025 +03 -01 \\ -001 & -10 & 001 & +025 +02 -03 \\ +000 & +00 & -015 & +22 +00 -00 \\ +021 & +24 & -021 & +18 +00 +03 \\ -009 & -04 & -028 & +10 -02 +01 \\ -019 & -05 & -029 & +6 -02 +00 \\ -19 & -04 & -029 & +6 -02 +00 \\ +29 & +05 & -029 & +4 -02 +05 \\ -30 & -04 & +030 & +1 -03 +00 \\ -88 & +14 & -029 & -4 -03 +06 \\ -127 & +53 & -028 & -10 -04 +10 \\ -27 & +12 & -027 & -10 -04 +01 \\ -12 & +15 & -019 & -19 -04 +02 \\ -25 & +43 & -015 & -22 -04 -01 \\ -8 & +10 & -002 & -25 -03 +02 \\ +20 & +60 & +040 & -25 -02 -04 \\ -05 & -08 & +016 & -21 -01 +02 \\ -00 & 00 & +019 & -19 +00 -00 \\ -16 & -12 & +024 & -15 +01 +01 \\ -16 & -11 & +024 & -14 +01 +01 \\ +36 & +17 & +027 & -10 +02 -02 \\ -20 & -04 & +29 & -5 +02 -00 \\ -40 & -06 & +30 & -3 +03 +01 \\ -20 & +03 & +30 & +3 +03 -01 \\ -18 & +08 & +27 & +11 +03 -01 \\ -27 & +13 & +27 & +11 +04 -01 \\ -35 & +18 & +27 & +12 +04 +00 \\ -34 & +21 & +25 & +14 +04 +00 \\ -23 & +19 & +23 & +16 +04 -01 \\ -05 & +9 & +15 & +21 +04 -03 \\ -06 & +19 & +109 & +24 +03 -01 \\ -05 & +19 & 009 & +024 +03 -01 \end{array}$

$\begin{array}{rcll} 38 & 38 & +03 & +01 \\ 68 & 68 & +02 & +01 \\ 32 & 32 & +01 & -02 \\ 27 & 27 & +00 & +03 \\ 25 & 25 & -02 & -04 \\ 75 & 75 & -01 & -08 \\ 43 & 43 & -10 & -02 \\ 28 & 28 & -06 & -00 \\ 31 & 31 & -09 & -04 \\ 85 & 85 & +01 & \\ 01 & 01 & -11 & -06 \\ 19 & 19 & -02 & +04 \\ 02 & 02 & -12 & +00 \\ 05 & 05 & -05 & -04 \\ 69 & - & - & 00 \\ 69 & - & - & -02 \\ 93 & 69 & +01 & +00 \\ 74 & - & - & +02 \\ 76 & - & - & +03 \\ 07 & - & - & +04 \\ 07 & 07 & -02 & -02 \\ 93 & 93 & +05 & +04 \\ 79 & 79 & +05 & +04 \\ 16 & 16 & +11 & +02 \\ 57 & 57 & +05 & +04 \\ 87 & 31 & +04 & +01 \\ 52 & +05 & +05 & \\ 70 & +05 & +04 & \\ 09 & +01 & +03 & \\ 43 & +03 & +03 & \\ 03 & +06 & +06 & \\ 17 & +02 & +01 & \end{array}$

$\begin{array}{rcll} 9.38 & 3.4 & +06 & \\ 33.96 & 40 & +06 & \\ 174 & 63 & & \\ 33.89 & 69 & & \\ 17.24 & 29 & & \\ 37.08 & 35 & & \\ 57.77 & 18 & & \\ 34.41 & 24 & & \\ 53.43 & 21 & & \\ 37.78 & 27 & & \\ 21.13 & 76 & & \\ 48.63 & 72 & & \\ 41.61 & 29 & & \\ 31.65 & 35 & & \\ 21.62 & 28 & & \\ 41.66 & 34 & & \\ 35.57 & 28 & & \\ 35.71 & 34 & & \\ 11.83 & 72.06 & & \\ 29.08 & & & \\ 58.24 & 83.78 & & \\ 39.59 & 84 & & \\ 44.84 & 15 & & \\ 40.57 & 21 & & \\ 42.40 & 84 & & \\ 31.94 & 80 & & \\ 54.75 & 98 & & \\ 37.03 & 04 & & \\ 44.73 & 65 & & \\ 16.16 & 71 & & \\ 48.24 & 20 & & \\ 34.66 & 96 & & \\ 16.56 & 64 & & \\ 30.08 & 70 & & \\ 8.28 & 64 & & \\ 36.36 & 70 & & \\ 45.61 & 54 & & \\ 27.03 & 60 & & \\ 22.37 & 82 & & \\ 32.46 & 88 & & \\ 49.68 & 01 & & \\ 40.72 & 07 & & \\ 15.82 & 88 & & \\ 30.06 & 94 & & \\ 26.14 & 74 & & \\ 30.60 & 80 & & \\ 11.85 & 18 & & \\ 22.34 & 25 & & \\ 36.14 & 58 & & \\ 37.33 & 58 & & \\ 57.07 & 28 & & \\ 32.21 & 34 & & \\ 26.08 & 50 & & \\ 32.92 & 56 & & \\ 16.77 & 65 & & \\ 36.68 & 71 & & \\ 8.93 & 01 & & \\ 22.48 & 07 & & \\ 35.45 & 37 & & \\ 33.92 & 43 & & \\ 54.34 & 97 & & \\ 36.63 & 03 & & \\ 47.31 & 13 & & \\ 32.82 & 18 & & \end{array}$

$\begin{array}{l} 1141a-176 = -5.24 + a-006 = 030 \\ 17.4+B.28 = -3.36 - a-7824 = 198 \\ 7824 = +198 \\ 6-+025-7-14 = 47 \end{array}$

| $h$ | $S$ | $\Sigma a$ | $\Sigma a^2$ |
|-----|-----|------------|--------------|
| 0   | =   | +00        |              |
| 1   | =   | +00        |              |
| 2   | =   | +01        |              |
| 3   | =   | +03        |              |
| 4   | =   | +02        |              |
| 5   | =   | +00        |              |
| 6   | =   | +01        |              |
| 7   | =   | -04        |              |
| 8   | =   | -04        |              |
| 9   | =   | -01        |              |
| 10  | =   | -01        |              |
| 11  | =   | -03        |              |
| 12  | =   | -03        |              |
| 13  | =   | -03        |              |
| 14  | =   | -02        |              |
| 15  | =   | -00        |              |
| 16  | =   | +00        |              |
| 17  | =   | +01        |              |
| 18  | =   | +03        |              |
| 19  | =   | +04        |              |
| 20  | =   | +04        |              |
| 21  | =   | +02        |              |
| 22  | =   | +02        |              |
| 23  | =   | +02        |              |

| $h$ | cont. $N.A.$ | $\Sigma a$ | $\Sigma a^2$ | $\Sigma a^3$ | $\Sigma a^4$ | $\Sigma a^5$ |
|-----|--------------|------------|--------------|--------------|--------------|--------------|
| 0   | +00          | +00        | +00          | 00           | 00           | 00           |
| 1   | +00          | +26        | +97          | 97           | +00          | +00          |
| 2   | +01          | +50        | +87          | 25           | +005         | +005         |
| 3   | +03          | +71        | +71          | 50           | +21          | +21          |
| 4   | +02          | +87        | +50          | 76           | +17          | +17          |
| 5   | +00          | +97        | +26          | 94           | +00          | +00          |
| 6   | -01          | +100       | +00          | 100          | +00          | -10          |
| 7   | -04          | +97        | -26          | 94           | +10          | -99          |
| 8   | -04          | +87        | -50          | 76           | +20          | -35          |
| 9   | -01          | +71        | -71          | 50           | +07          | -7           |
| 10  | -01          | +50        | -87          | 25           | +09          | -5           |
| 11  | -03          | +26        | -97          | 07           | +27          | -8           |
| 12  | -03          | +00        | -100         | 00           | +30          | -0           |
| 13  | -03          | -26        | -97          | 07           | +8           | +029         |
| 14  | -02          | -50        | -87          | 25           | +10          | +017         |
| 15  | -00          | -71        | -71          | 50           | -0           | +000         |
| 16  | +00          | -87        | -50          | 76           | -00          | -005         |
| 17  | +01          | -97        | -26          | 94           | -10          | -003         |
| 18  | +03          | -100       | +00          | 100          | -30          | +000         |
| 19  | +04          | -97        | +26          | 94           | -39          | +001         |
| 20  | +04          | -87        | +50          | 76           | -35          | +020         |
| 21  | +02          | -71        | +71          | 50           | -14          | +014         |
| 22  | +02          | -50        | +87          | 25           | -10          | +017         |
| 23  | +01          | -26        | +97          | 07           | -03          | +010         |
|     |              |            |              |              | 1218         | -184 + 245   |

$$12.18 \text{ } \Sigma a = -184$$

$$12.18 \text{ } n = +245$$

$$m = -0.15$$

$$n = +0.20$$

$$-0.15 \text{ } \Sigma a + 0.20 \text{ } \Sigma a^2 = 2$$

$$-0.10 + 0.10$$

$$-0.25 \text{ } \Sigma a + 0.30 \text{ } \Sigma a^2 = 2$$



|             |       | Nov. 1900<br>corrected | Jan | Feb | Mar. | Edub. | II<br>Edub. | III<br>Edub. | Jan. 1900 | II<br>Edub. | III<br>Edub. |
|-------------|-------|------------------------|-----|-----|------|-------|-------------|--------------|-----------|-------------|--------------|
| x Andromeda | 0 1   | 43.91                  | 39  | 37  | 34   | 40    | 39          | 38           | 38        | 39          | 39           |
| Peg.        | 0 6   | 35.70                  | 72  | 68  | 68   | 70    | 71          | 71           | 68        | 66          | 73           |
| Arct.       | 1 58  | 54.33                  | 29  | 44  | 30   | 31    | 30          | 30           | 32        | 34          | 30           |
| Perse.      | 2 05  | 32.27                  | 25  | 21  | 26   | 25    | 24          | 27           | 27        | 23          | 33           |
| x Tau.      | 4 28  | 31.23                  | 21  | 21  | 21   | 23    | 22          | 21           | 24        | 26          | 25           |
| x Aquil.    | 5 7   | 9.74                   | 71  | 77  | 60   |       |             | 69           | 75        | 81          | 74           |
| B Orion.    | 5 8   | 20.33                  | 33  | 32  | 38   | 32    | 33          | 37           | 43        | 34          | 40           |
| B Tau.      | 5 18  | 8.34                   | 31  | 28  | 27   | 37    | 37          | 31           | 29        | 33          | 35           |
| x Orion.    | 5 48  | 11.30                  | 20  | 45  | 31   | 38    | 35          | 33           | 31        | 33          | 36           |
| x Can. Maj. | 6 39  | 27.84                  | 85  | 80  | 81   |       | 89          | 93           | 83        | 88          | 10           |
| x Can. Min. | 7 33  | 32.90                  | 89  | 94  | 92   | 98    | 80          | 91           | 98        | 88          | 05           |
| B Gem.      | 7 37  | 25.17                  | 17  | 22  | 17   | 19    | 20          | 18           | 20        | 20          | 33           |
| x Hyd.      | 9 21  | 14.90                  | 92  | 90  | 90   | 88    | 87          | 92           | 92        | 89          | 96           |
| x Leo.      | 10 01 | 30.00                  | 99  | 04  | 00   | 02    | 98          | 00           | 06        | 03          | 13           |
| B Leo.      | 11 42 | 28.71                  | 73  | 81  | 73   | 71    | 71          | 69           | 70        | 69          | 85           |
| x Virg.     | 13 18 | 23.99                  | 97  | 91  | 95   | 96    | 94          | 99           | 96        | 99          | 03           |
| x Boötes.   | 14 10 | 46.70                  | 69  | 72  | 71   | 72    | 72          | 71           | 70        | 70          | 1147         |
| a Lib.      | 14 43 | 44.72                  | 74  | 74  | 74   | 71    | 71          | 76           | 70        | 70          | 76           |
| x Corvina.  | 15 29 | 13.63                  | 61  | 62  | 60   | 63    | 65          | 59           | 56        | 59          | 59           |
| a Lib.      | 15 37 | 54.92                  | 88  | 95  | 93   | 91    | 90          | 93           | 89        | 87          | 89           |
| a Scorp.    | 16 21 | 30.05                  | 04  | 09  | 07   | 05    | 04          | 00           | 07        | 06          | 09           |
| x Hirc.     | 17 08 | 45.98                  | 98  | 99  | 99   | 98    | 96          | 98           | 93        | 93          | 99           |
| x Ophi.     | 17 28 | 56.84                  | 83  | 80  | 79   | 80    | 77          | 84           | 80        | 79          | 81           |
| x Lyra.     | 18 32 | 34.27                  | 26  | 22  | 25   | 27    | 27          | 23           | 17        | 24          | 19           |
| 2 Aquil.    | 19 40 | 7.62                   | 61  | 61  | 68   | 62    | 55          | 63           | 58        | 57          | 61           |
| a Aquil.    | 19 44 | 29.35                  | 37  | 34  | 38   | 35    | 33          | 33           | 32        | 33          | 24           |
| B Aquil.    | 19 49 | 58.61                  | 61  | 58  | 68   | 59    | 61          | 60           | 57        | 55          | 61           |
| a Cep.      | 20 11 | 53.75                  | 76  | 74  | —    | 71    | 71          | —            | 70        | 70          | 74           |
| a Cygn.     | 20 37 | 2.10                   | 19  | 00  | 98   | 22    | 09          | 07           | 09        | 6           | 8            |
| a Cygn.     | 21 59 | 7.46                   | 46  | 45  | 48   | 42    | 40          | 50           | 43        | 42          | 47           |
| a Perce.    | 22 50 | 31.09                  | 06  | 99  | —    | 02    | —           | 14           | 04        | 02          | 90           |
| a Reg.      | 22 58 | 20.19                  | 14  | 17  | 21   | 17    | 19          | 20           | 18        | 18          | 19           |

| 1869      | 1870       | 1871       | 1872      | 1873      | 1874      |
|-----------|------------|------------|-----------|-----------|-----------|
| Jan       | Feb        | Mar        | Apr       | May       | June      |
| +02       | +04        | +07        | +1        | +2        | +03       |
| -02       | +02        | +2         | +0        | -1        | -1        |
| +04       | -11        | +3         | +2        | +3        | +3        |
| +02       | +6         | +1         | +2        | +3        | +0        |
| +02       | +2         | +2         | +0        | +1        | +2        |
| +03       | +3         | +14        | —         | —         | +5        |
| +00       | +1         | -5         | +1        | +0        | -4        |
| +03       | +6         | -3         | -3        | -3        | +3        |
| +02       | -15        | -1         | -3        | -5        | -3        |
| -01       | +4         | +3         | —         | -5        | -9        |
| +01       | -4         | -2         | -8        | +0        | -1        |
| +00       | -5         | +0         | -2        | -3        | -1        |
| -02       | +0         | +0         | +2        | +3        | -2        |
| +01       | -4         | +0         | -02       | +2        | -0        |
| -02       | -10        | -2         | +0        | +0        | +2        |
| -03       | +3         | -1         | -2        | +0        | +0        |
| +01       | -2         | -1         | -2        | -2        | -1        |
| -02       | -2         | -2         | +1        | +1        | -4        |
| +02       | +1         | +3         | +0        | -2        | +4        |
| +04       | -3         | -1         | +1        | +2        | -1        |
| +01       | -4         | -2         | +0        | +1        | +5        |
| +00       | -1         | -1         | +0        | +2        | +2        |
| +01       | +4         | +5         | +4        | +7        | +0        |
| +01       | +5         | +2         | +0        | +0        | +4        |
| +01       | +1         | -6         | +0        | +7        | -1        |
| -02       | +1         | -3         | +0        | +2        | +2        |
| +00       | +3         | -7         | +2        | +0        | +1        |
| -01       | +1         | +12        | +4        | +4        | —         |
| -09       | +10        | -2         | -12       | +1        | +3        |
| +00       | +1         | —          | +4        | +6        | -4        |
| +03       | +10        | +2         | +7        | —         | -5        |
| +05       | +2         | —          | +2        | +0        | +1        |
| <b>11</b> | <b>132</b> | <b>102</b> | <b>73</b> | <b>83</b> | <b>77</b> |

| 1869       | 1870       | 1871 | 1872 | 1873 | 1874       |
|------------|------------|------|------|------|------------|
| Jan        | Feb        | Mar  | Apr  | May  | June       |
| +3         | +21        | +02  | +03  | +4   |            |
| +1         | +4+3       | -03  | -2   | -1   |            |
| +1         | -1-2       | +03  | +4   | +5   |            |
| +0         | +4+3       | -06  | -5   | -4   |            |
| -1         | -3-4       | -02  | -1   | -0   |            |
| -1         | -7-8       | +00  | +1   | +2   |            |
| -11        | -1-2       | -07  | -6   | -5   |            |
| +5         | +1+0       | —    | +0   | +1   |            |
| -1         | -3-4       | -0   | -5   | -4   |            |
| -15        | -25        | -26  | -26  | -25  | -24        |
| -8         | +7         | +6   | -15  | -14  | -13        |
| -3         | -3         | -4   | -16  | -15  | -14        |
| -2         | +1         | +0   | -6   | -5   | -4         |
| -6         | -3         | -4   | -13  | -12  | -11        |
| +1         | +2         | +1   | -15  | -14  | -13        |
| -2         | -5         | -6   | -9   | -8   | -7         |
| +0         | +0         | -1   | -41  | -40  | -39        |
| +2         | +2         | +1   | -4   | -3   | -2         |
| +7         | +4         | +3   | +4   | +5   | +6         |
| +3         | +5         | +4   | +3   | +4   | +5         |
| -2         | -1         | -2   | -4   | -3   | -2         |
| +5         | +5         | +4   | -1   | -0   | +1         |
| +4         | +5         | +4   | +3   | +4   | +5         |
| +10        | +3         | +2   | +8   | +9   | +10        |
| +4         | +5         | +4   | +1   | +2   | +3         |
| +3         | +2         | +1   | +21  | +22  | +23        |
| +4         | +6         | +5   | +0   | +1   | +2         |
| +5         | +5         | +4   | +7   | +8   | +9         |
| +1         | +4         | +3   | +2   | +3   | +4         |
| +3         | +4         | +3   | -1   | +0   | +1         |
| +5         | +7         | +6   | +12  | +20  | +24        |
| +1         | +1         | +0   | +00  | +1   | +2         |
| +67        | 84         | +57  | +67  | +84  | +98        |
| -52        | 52         | -63  | 176  | 158  | 143        |
| <b>119</b> | <b>120</b> |      |      |      | <b>241</b> |

|    | <u>B. 8.</u> |       | <u>Q de 7.</u> |       |
|----|--------------|-------|----------------|-------|
| 1  | +000         | +050  | +000           | +001  |
| 2  | - 2          | - 40  | - 1            | - 1   |
| 3  | + 0          | + 0   | + 5            | + 9   |
| 4  | + 14         | + 14  | + 0            | + 0   |
| 5  | + 0          | + 0   | - 9            | - 4   |
| 6  | - 29         | - 8   | - 48           | - 11  |
| 7  | - 0          | + 0   | - 19           | - 4   |
| 8  | - 17         | - 4   | - 29           | - 5   |
| 9  | - 20         | - 1   | - 30           | - 1   |
| 10 | - 78         | + 13  | + 29           | - 5   |
| 11 | - 42         | + 39  | + 27           | - 12  |
| 12 | - 18         | + 8   | - 27           | + 12  |
| 13 | + 18         | - 23  | + 6            | - 8   |
| 14 | - 9          | + 17  | - 15           | + 26  |
| 15 | + 0          | + 0   | - 1            | + 10  |
| 16 | - 3          | + 0   | + 3            | + 10  |
| 17 | + 5          | + 6   | + 11           | + 17  |
| 18 | - 7          | - 7   | - 6            | - 7   |
| 19 | - 0          | + 0   | - 0            | + 0   |
| 20 | - 0          | + 0   | - 8            | - 6   |
| 21 | + 9          | - 4   | + 9            | + 4   |
| 22 | + 0          | - 0   | - 10           | - 2   |
| 23 | - 39         | - 6   | - 30           | - 4   |
| 24 | - 0          | - 0   | - 0            | + 0   |
| 25 | - 0          | - 0   | - 0            | + 0   |
| 26 | - 0          | - 0   | + 9            | - 4   |
| 27 | - 26         | + 14  | - 18           | + 10  |
| 28 | - 42         | + 27  | - 24           | + 16  |
| 29 | - 15         | + 13  | - 8            | + 6   |
| 30 | - 25         | + 43  | - 15           | + 25  |
| 31 | - 21         | + 66  | - 18           | + 59  |
| 32 | - 8          | + 29  | - 5            | + 19  |
|    | - 450        | + 220 | - 311          | + 224 |
|    | + 52         | - 63  | 99             | 74    |
|    | - 398        | + 257 | - 212          | + 150 |
|    | - 338        | 195   |                |       |
|    | + 113        | 172   |                |       |
|    | + 225        | + 23  |                |       |

$$\begin{aligned}
 +a - 0.09b &= -0.16 \\
 -a + 7.84b &= +1.512 \\
 b &= +.020 \\
 a &= -.022
 \end{aligned}$$

$$\begin{aligned}
 a - 0.09b &= +0.122 \\
 -a + 7.84b &= +0.23 + 132 \\
 a &= +0.02 - 0.12 \\
 b &= +0.02 + 0.12
 \end{aligned}$$

$$\begin{aligned}
 +a - 0.09b &= -0.12 \\
 -a + 7.84b &= .881 \\
 a &= -0.12 \\
 b &= +0.12
 \end{aligned}$$



## Struve's Catalogue (1830.0)

<sup>h m s</sup>  
21 43 2.49 43.5

54 30 53 24.3

22 16 53 51 22.8

24 20 50 0.1

49 46 52 10.1



*Galande Stars from 36 to 44 N.P.D*

|       |          |        |         |        |           |
|-------|----------|--------|---------|--------|-----------|
| 36 00 | 38 203   | 22 6 3 | 38 357  | 238 43 | 37 177    |
| 36 15 | 38 389   | 6 23   | 38 350  | 38 00  | 37 401    |
| 36 38 | 38 350   | 6 46   | 38 350  | 39 27  | 39 94     |
| 36 10 | 38 391   | 7 8    | 39 302  | 40 08  | 39 153    |
| 36 11 | 38 391   | 7 19   | 38 377  | 40 36  | 39 50     |
| 36 22 | 38 316   | 8 00   | 38 205  | 40 22  | 49 527    |
| 39 15 | 41 419   | 10 56  | 38 430  | 40 47  | 40 42     |
| 39 24 | 41 367   | 8 10   | 38 437  | 41 37  | 40 227    |
| 39 25 | 41 367   | 11 22  | 38 437  | 42 15  | 33 03     |
| 39 28 | 38 447   | 10 32  | 38 437  | 42 37  | 38 473    |
| 39 30 | 38 249   | 12 02  | 38 472  | 42 55  | 38 537    |
| 41 10 | 34 501   | 12 15  | 38 477  | 43 18  | 38 18     |
| 41 04 | 53 249   | 12 35  | 38 477  | 43 49  | 49 180    |
| 42 3  | 37 313   | 12 46  | 40 12   | 46 59  | 38 267    |
| 41 35 | 49 324   | 15 18  | 50 82   | 47 00  | 53 80     |
| 42 55 | 38 129   | 15 43  | 38 461  | 48 51  | 39 291    |
| 42 37 | 51 433   | 15 19  | 51 109  | 49 26  | 49 346    |
| 42 54 | 38 141   | 17 01  | 38 527  | 50 23  | 38 251    |
| 45 12 | 53 419   | 16 41  | 50 115  | 50 7   | 51 318    |
| 46 20 | 36 564   | 17 22  | 40 366  | 50 33  | 38 459    |
| 45 59 | 53 08    | 17 38  | 52 431  | 50 8   | 51 109    |
| 46 20 | 36 564   | 17 49  | 38 364  | 53 05  | 38 139    |
| 47 23 | 52 564   | 17 45  | 52 524  | 52 36  | 49 434    |
| 47 53 | 37 08    | 18 35  | 38 393  | 54 09  | 37 997    |
| 48 16 | 38 249   | 18 19  | 52 325  | 54 19  | 52 105    |
| 48 26 | 37 921   | 19 24  | 34 547  | 54 44  | 37 163    |
| 49 18 | 37 313   | 19 20  | 50 256  | 57 38  | 40 00     |
| 49 29 | 49 297   | 19 43  | 39 314  | 57 43  | 49 36     |
| 49 38 | 37 291   | 19 30  | 50 304  | 58 09  | 40 532    |
| 51 16 | 53 149   | 19 54  | 39 265  | 57 55  | 51 410    |
| 54 29 | 38 87    | 19 56  | 38 29   | 58 21  | 38 157    |
| 54 10 | 51 525   | 20 35  | 38 92   | 58 16  | 53 462    |
| 54 32 | 38 96    | 20 38  | 50 263  | 23 2   | 13 38 19  |
| 55 51 | 53 572   | 21 12  | 38 171  | 23 7   | 47 52 153 |
| 56 19 | 38 196   | 21 11  | 53 105  | 3 6    | 37 945    |
| 56 16 | 38 146   | 21 23  | 37 597  | 3 10   | 37 535    |
| 56 22 | 37 952   | 21 21  | 51 206  | 3 16   | 38 162    |
| 57 54 | 37 274   | 21 39  | 38 317  | 3 33   | 37 581    |
| 58 38 | 37 207   | 21 58  | 38 344  | 4 41   | 49 286    |
| 58 47 | 50 471   | 23 04  | 40 445  | 5 36   | 38 385    |
| 59 8  | 39 89    | 24 07  | 52 576  | 5 57   | 53 130    |
| 59 29 | 37 999   | 24 29  | 38 593  | 6 8    | 38 442    |
| 22 0  | 1 37 398 | 27 14  | 52 72   | 6 47   | 53 156    |
| 1 45  | 58 89    | 27 30  | 40 576  | 7 11   | 52 58     |
| 0 1   | 37 400   | 27 38  | 37 1958 | 9 58   | 37 675    |
| 3 2   | 49 429   | 28 25  | 53 203  | 12 8   | 53 461    |
| 3 24  | 40 97    | 29 11  | 39 290  | 13 39  | 36 522    |
| 3 18  | 51 168   | 28 46  | 50 328  | 13 4   | 49 528    |
| 3 26  | 38 394   | 32 59  | 40 510  | 14 16  | 38 595    |
| 3 42  | 51 239   | 30 149 | 53 37   | 14 21  | 39 20     |
| 3 41  | 38 462   | 34 12  | 37 08   | 14 27  | 37 39     |
| 4 04  | 38 220   | 32 22  | 50 400  | 16 20  | 53 566    |
| 5 42  | 51 213   | 34 17  | 40 541  | 16 20  | 38 70     |
| 5 45  | 39 32    | 33 5   | 53 126  | 16 29  | 37 992    |
| 5 59  | 39 253   | 35 53  | 39 360  | 16 43  | 37 682    |
|       |          | 32 48  | 52 572  | 17 04  | 37 559    |
|       |          | 33 16  | 37 183  | 17 5   | 37 558    |
|       |          | 35 29  | 50 268  | 17 47  | 49 122    |
|       |          | 36 31  | 38 318  | 19 30  | 38 08     |
|       |          | 36 6   | 51 254  |        |           |
|       |          | 37 16  | 38 404  |        |           |
|       |          | 36 53  | 51 475  |        |           |
|       |          | 37 17  | 38 44   |        |           |
|       |          | 37 54  | 53 461  |        |           |
|       |          | 37 43  | 38 567  |        |           |
|       |          | 38 25  | 37 247  |        |           |
|       |          | 38 35  | 33 389  |        |           |
|       |          | 38 36  | 37 187  |        |           |







