



Character Figures for bright H $\alpha$ -Flocculi.

Whole Sun Disc

1923

| Observatory      | April |   |   |   |     |   |   |   |   |    |    |    |    |     |     |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     | Mean |
|------------------|-------|---|---|---|-----|---|---|---|---|----|----|----|----|-----|-----|----|----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                  | 1     | 2 | 3 | 4 | 5   | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14  | 15  | 16 | 17 | 18 | 19 | 20  | 21 | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |      |
| Kodaikanal . . . | 0     | 0 | 0 | 0 | 1   | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 1   | 0   | 1   | 1   | 1   | 1   | 1   | 0   | 0   | 0.3 |      |
| Meudon/Paris . . |       | 0 |   | 0 | 0   |   | 0 |   | 0 | 0  | 0  |    | 0  |     | 0   | 0  |    | 0  | 0  | 0.5 |    | 0.5 | 0.5 | 0.5 |     | 0.5 |     | 0.5 | 0.2 |     |     |      |
| Mount Wilson . . |       |   |   |   |     |   |   | 0 |   | 0  | 0  |    | 1  | 1   |     |    |    | 0  | 0  |     |    | 1   | 1   | 1   |     | 1   | 1   | 0   | 0   | 0.5 |     |      |
| Mean .           | 0     | 0 | 0 | 0 | 0.5 | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0.3 | 0.5 | 0  | 0  | 0  | 0  | 0.2 |    | 1   | 0.5 | 0.8 | 0.8 | 1   | 0.8 | 1   | 0.2 | 0   | 0.3 |      |

May

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |     |     |     |   |   |   |   |     |     |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|-----|-----|-----|---|---|---|---|-----|-----|
| Kodaikanal . . . | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0 | 0 | 0   | 0   | 0   | 1 | 1 | 1 | 1 | 1   | 0.2 |
| Meudon/Paris . . | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   | 0 |   | 0 | 0 | 0 |   |   |   |   |   |   |     |   |   | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1   | 0.3 |
| Mount Wilson . . | 0 |   |   | 0 | 0 |   |   | 0 |   | 0 | 0 |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   | 0 | 1   | 0 | 0 | 1   | 1   | 0   |   | 1 |   | 1 | 0.2 |     |
| Mean .           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0.8 | 0.5 | 1 | 1 | 1 | 1 | 1   | 0.2 |

June

|                  |   |   |     |   |     |     |   |   |   |   |   |   |   |   |     |     |   |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|------------------|---|---|-----|---|-----|-----|---|---|---|---|---|---|---|---|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| Kodaikanal . . . | 1 | 1 | 0   | 1 | 0   | 0   | 0 | 0 | 0 | 0 | 0 |   |   | 0 | 0   | 0   | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |     | 1   | 1 | 0.2 |
| Meudon/Paris . . | 1 |   |     | 1 | 1   |     | 0 | 0 | 0 | 0 |   |   |   | 0 | 0.5 | 0.5 |   |     |     | 0.5 | 0.5 | 1   | 1   | 1   | 1   | 0.5 | 0.5 | 0.5 | 1   | 1 | 0.5 |
| Mount Wilson . . | 1 | 1 | 1   | 1 | 1   |     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   | 0   | 0   |   |     | 1   | 1   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1 | 0.6 |
| Mean .           | 1 | 1 | 0.5 | 1 | 0.7 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0 | 0.2 | 0.2 | 0   | 1   | 0.5 | 0.2 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 1 | 0.4 |

Central Zone

| Observatory      | April |     |   |   |     |   |   |   |   |    |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |    |    |     |     |     |     | Mean |
|------------------|-------|-----|---|---|-----|---|---|---|---|----|----|----|-----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|----|-----|-----|-----|-----|------|
|                  | 1     | 2   | 3 | 4 | 5   | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13  | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 24 | 25 | 26 | 27 | 28  | 29  | 30  | 31  |      |
| Kodaikanal . . . | 0     | 0   | 1 | 0 | 1   | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0   | 1  | 1  | 1  | 0  | 0   | 0   | 0   | 0.2 |      |
| Meudon/Paris . . |       | 0.5 |   | 0 | 0   |   | 0 |   | 0 | 0  | 0  |    | 0   |     | 0  | 0  |    | 0  | 0  | 0  |    | 1  | 1   | 1  |    | 0  |    | 0   | 0.2 |     |     |      |
| Mount Wilson . . |       |     |   |   |     |   |   | 0 |   | 0  | 0  |    | 1   | 1   |    |    |    | 0  | 0  |    |    | 1  | 1   | 1  |    | 0  | 1  | 0   | 0   | 0.4 |     |      |
| Mean .           | 0     | 0.2 | 1 | 0 | 0.5 | 1 | 0 | 0 | 0 | 0  | 0  | 0  | 0.3 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0.7 | 1  | 1  | 1  | 0  | 0.5 | 0   | 0   | 0.3 |      |

May

|                  |   |   |   |   |   |   |   |   |   |   |     |     |     |     |   |   |   |   |   |   |   |   |     |   |     |     |   |   |   |     |     |     |     |
|------------------|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|-----|---|---|---|---|---|---|---|---|-----|---|-----|-----|---|---|---|-----|-----|-----|-----|
| Kodaikanal . . . | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0 | 0   | 0   | 1 | 1 | 1 | 0   | 0   | 0.1 |     |
| Meudon/Paris . . | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   | 0.5 |     | 0.5 | 0   | 0 |   |   |   |   |   |   |   |     |   | 0.5 | 1   | 1 | 1 | 1 | 0   | 0.3 |     |     |
| Mount Wilson . . | 0 |   |   | 0 | 0 |   |   | 0 |   | 0 | 0   |     | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0   | 0 | 1   | 1   | 1 |   | 0 | 1   | 0.2 |     |     |
| Mean .           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0.2 | 0   | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0   | 0.5 | 1 | 1 | 1 | 0.7 | 0   | 0.5 | 0.2 |

June

|                  |   |     |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |     |     |   |   |   |     |     |
|------------------|---|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|-----|-----|---|---|---|-----|-----|
| Kodaikanal . . . | 1 | 1   | 1   | 1   | 1   | 1 | 0 | 0 | 0 | 0 | 0 |   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0 | 0   | 0   | 1 |   | 1 | 1   | 0.4 |
| Meudon/Paris . . | 1 |     |     | 1.5 | 0.5 |   | 0 | 0 | 0 | 0 |   |   |   |   | 0 | 0 | 0 |   |   | 0 | 0 | 0   | 0   | 0 | 0   | 1   | 1 | 1 | 1 | 1   | 0.4 |
| Mount Wilson . . |   | 2   | 2   | 2   | 1   | 1 |   | 0 | 0 | 0 | 0 | 0 | 0 |   |   | 0 | 0 |   |   | 1 | 1 | 1   | 0   | 1 | 1   | 1   | 1 | 1 | 1 | 0   | 0.7 |
| Mean .           | 1 | 1.5 | 1.5 | 1.5 | 0.8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.5 | 0.3 | 0 | 0.3 | 0.7 | 1 | 1 | 1 | 0.7 | 0.5 |



Character Figures for bright H<sub>α</sub>-Floculi.

Whole Sun Disc

1923

| Observatory        | October |   |   |     |   |   |   |   |   |    |    |    |     |     |     |     |     |     |    |    |    |    |                |    |    |    |     |                |                |    |     | Mean |     |
|--------------------|---------|---|---|-----|---|---|---|---|---|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----------------|----|----|----|-----|----------------|----------------|----|-----|------|-----|
|                    | 1       | 2 | 3 | 4   | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22 | 23             | 24 | 25 | 26 | 27  | 28             | 29             | 30 | 31  |      |     |
| Kodaikanal . . .   | 1       |   |   | 0   | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  |     |     | 0   | 0   |     |     |    |    |    | 0  |                |    |    |    |     |                |                | 0  | 1   | 0.1  |     |
| Meudon/Paris . . . | 0.5     |   |   |     |   | 0 |   |   |   |    |    |    | 0.5 | 0   | 0.5 | 0   | 0   |     |    |    |    | 1  |                |    |    |    | 0.5 |                |                | 0  | 0.3 |      |     |
| Mount Wilson . . . |         |   |   | 1   |   | 0 |   |   | 0 | 0  | 0  | 1  |     | 1   |     | 1   | 1   | 1   | 0  | 0  | 0  |    | 1 <sup>a</sup> | 1  | 1  | 1  | 1   | 1 <sup>a</sup> | 1 <sup>a</sup> | 1  | 0   | 0.6  |     |
| Mean . . .         | 0.8     |   |   | 0.5 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0.5 | 0.5 | 0.5 | 0.2 | 0.3 | 0.5 | 1  | 0  | 0  | 0  | 0.5            | 1  | 1  | 1  | 0.8 | 1              | 1              | 1  | 0   | 1    | 0.4 |

November

|                    |   |                |                |   |   |   |     |   |   |   |   |     |     |     |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   |   |     |
|--------------------|---|----------------|----------------|---|---|---|-----|---|---|---|---|-----|-----|-----|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|-----|
| Kodaikanal . . .   | 1 | 0              |                | 1 | 1 | 1 | 1   | 1 | 1 | 1 | 1 | 1   |     |     | 1 | 0 | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| Meudon/Paris . . . |   | 0.5            |                | 1 |   | 1 | 1.5 |   |   |   |   | 0.5 | 0.5 |     |   |   |   |   | 0 | 0   |   |   |   |   |   |   |   |   |   |   | 0.6 |
| Mount Wilson . . . |   | 1 <sup>a</sup> | 1 <sup>a</sup> |   | 1 | 1 |     |   |   |   | 1 |     | 1   |     |   | 0 |   | 1 |   | 0   | 0 | 0 | 0 | 0 | 0 |   |   |   |   |   | 0.6 |
| Mean . . .         | 1 | 0.5            | 1              | 1 | 1 | 1 | 1.2 | 1 | 1 | 1 | 1 | 1   | 0.8 | 0.5 | 1 | 1 | 0 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 |

December

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |   |   |   |     |   |   |   |   |     |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|---|---|---|-----|---|---|---|---|-----|
| Kodaikanal . . .   |   | 0 |   |   | 0 |   |   | 0 | 0 | 0 | 0 | 0 |   |   | 0 |   |   |   |     |     |     |   | 0 | 0 | 0   | 0 | 0 | 0 | 1 | 0.1 |
| Meudon/Paris . . . |   |   |   |   |   |   |   |   |   | 0 |   |   |   |   |   |   |   |   | 0.5 | 0.5 | 0.5 |   | 0 |   | 0   |   |   |   | 0 | 0.2 |
| Mount Wilson . . . |   |   | 1 | 1 |   | 1 | 0 |   |   |   |   |   |   | 0 | 0 |   |   |   | 0   | 1   | 1   |   |   | 1 |     |   | 1 |   | 0 | 0.6 |
| Mean . . .         | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0.2 | 0.8 | 1 | 0 | 0 | 0.3 | 0 | 0 | 1 | 0 | 0.3 |

Central Zone

| Observatory        | October |   |   |   |   |   |   |   |   |    |    |    |     |     |     |     |     |    |    |    |    |    |                |    |    |    |     |    |    |    |     | Mean |
|--------------------|---------|---|---|---|---|---|---|---|---|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----------------|----|----|----|-----|----|----|----|-----|------|
|                    | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23             | 24 | 25 | 26 | 27  | 28 | 29 | 30 | 31  |      |
| Kodaikanal . . .   | 1       |   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  |     |     | 0   | 0   |     |    |    |    |    | 0  |                |    |    |    |     |    |    | 0  | 1   | 0.1  |
| Meudon/Paris . . . | 0.5     |   |   |   |   | 0 |   |   |   |    |    |    | 0.5 | 0.5 | 0.5 | 0.5 | 0   |    |    |    |    | 0  |                |    |    | 0  |     |    |    | 0  | 0.2 |      |
| Mount Wilson . . . |         |   |   | 0 |   | 0 |   |   | 0 | 0  | 0  | 0  |     | 1   |     | 1   | 1   | 0  | 0  | 0  | 0  |    | 1 <sup>a</sup> | 1  | 1  | 1  | 1   | 0  | 0  | 0  | 0.3 |      |
| Mean . . .         | 0.8     |   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0.5 | 0.8 | 0.2 | 0.5 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0              | 1  | 1  | 1  | 0.5 | 0  | 0  | 0  | 1   | 0.3  |

November

|                    |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |     |     |   |   |   |   |   |   |   |   |   |   |     |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|-----|-----|---|---|---|---|---|---|---|---|---|---|-----|
| Kodaikanal . . .   | 0 | 0 |   | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1   |   |   | 0 | 0 | 0 | 0 | 1   | 1   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.2 |
| Meudon/Paris . . . |   | 0 |   | 0 |   | 0 | 0 |   |   |   |   | 0   | 0 |   |   |   |   |   | 0   | 0   |   |   |   |   |   |   |   |   |   | 0 | 0.0 |
| Mount Wilson . . . |   | 0 | 0 |   | 0 | 0 |   |   |   |   |   | 0   | 0 |   |   | 0 |   | 1 |     | 0   | 0 | 0 | 0 | 0 | 0 |   |   |   |   | 0 | 0.1 |
| Mean . . .         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.2 |

December

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |     |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|
| Kodaikanal . . .   |   | 0 |   |   | 0 |   |   | 0 | 0 | 0 | 0 | 0 |   |   | 0 |   |   |   |   |   |   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0 | 0.0 |
| Meudon/Paris . . . |   |   |   |   |   |   |   |   |   | 0 |   |   |   |   |   |   |   |   | 0 | 0 | 0 |   | 0 |   | 0 |   |   |   |     | 0 | 0.0 |
| Mount Wilson . . . |   |   | 0 | 0 |   | 0 | 0 |   |   |   |   |   | 0 | 0 |   | 0 |   |   | 0 | 0 | 0 |   |   | 0 |   |   |   | 1 |     | 0 | 0.1 |
| Mean . . .         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0.0 |

a = Small areas very bright H<sub>α</sub>.