

### Character Figures for bright H $\alpha$ -Floculi.

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity, 0 representing absence or rarity, 5 extreme abundance and intensity of the floculi. As central zone a circular surface of a semi-diameter of the sun's disc has been taken.

#### Whole Sun Disc 1932

| Observatory             | January |     |   |   |     |   |     |   |     |     |     |    |     |     |    |    |     |    |    |     |     |     |    |     |     |     |    |     |     |     |     | 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  |      |
| Arcetri/Firenze         |         | 0.5 |   |   |     |   |     |   |     | 0.5 |     |    | 0   | 0.5 |    |    |     |    |    | 0   | 0   | 0.5 |    |     | 0.5 | 0.5 | 0  | 0.5 | 0   | 0.5 | 0.5 |      |
| Evershed/Ewhurst        | 2       |     |   |   |     |   |     |   |     |     |     |    |     |     |    |    |     |    |    |     |     |     |    |     | 0   |     |    |     |     |     |     |      |
| Kodaikanal              | 2       | 1   | 1 | 1 | 2   | 1 | 1   | 2 | 1   | 1   | 1   | 1  | 1   | 1   | 1  | 1  | 1   | 1  | 1  | 1   | 0   |     | 1  | 1   | 1   | 1   | 2  | 1   | 1   | 1   | 1   |      |
| Meudon/Paris            | 0.5     |     |   |   |     |   |     |   |     | 0.5 |     |    |     | 0   |    |    |     |    |    | 0   | 0   | 0.5 |    | 0.5 | 0.5 | 0.5 |    |     |     |     |     |      |
| Mount Wilson            | 2       | 1.5 |   | 1 | 1   | 1 | 1.5 |   | 1   | 1   | 0.5 |    |     |     |    |    | 1   | 1  | 1  | 0.5 | 0.5 | 0.5 | 1  | 1   | 1   |     |    | 1   | 1   |     |     |      |
| Zürich (Spectrohelioc.) |         |     |   |   | 1   |   |     |   | 0.5 |     |     |    |     |     |    |    | 0   |    |    |     |     |     |    | 1   | 1   |     |    |     |     | 0.5 | 1   |      |
| Mean                    | 1.5     | 1   | 1 | 1 | 1.3 | 1 | 1.2 | 2 | 0.8 | 0.8 | 0.8 |    | 0.5 | 0.5 | 1  | 1  | 0.7 | 1  | 1  | 0.4 | 0.1 | 0.5 | 1  | 0.7 | 0.8 | 0.7 | 1  | 0.8 | 0.7 | 0.5 | 0.9 |      |

#### February

|                         |     |     |     |     |     |     |     |   |   |     |     |     |     |     |     |   |   |   |   |   |   |   |   |     |     |     |     |     |     |     |   |  |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|---|---|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|---|--|
| Arcetri/Firenze         | 0.5 | 0.5 |     |     |     | 0   | 0   |   |   |     |     | 0   |     |     |     |   |   |   |   | 0 | 0 | 0 | 0 | 0   | 0.5 | 0.5 |     |     |     |     |   |  |
| Evershed/Ewhurst        |     |     |     | 1   |     |     | 1   |   |   |     |     |     |     |     |     |   | 0 |   |   |   |   |   |   |     |     |     |     |     |     |     |   |  |
| Kodaikanal              | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0 | 1 | 1   | 1   | 1   | 1   | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 1   | 1   | 2   | 2   | 2   | 2   | 2 |  |
| Meudon/Paris            |     | 0   |     |     |     | 0   | 0   |   |   |     |     | 0   | 0   | 0   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0.5 | 0.5 | 0.5 |     |     |     |   |  |
| Mount Wilson            |     |     |     | 0   |     |     |     |   |   | 0.5 | 0.5 |     |     |     |     |   |   |   |   | 0 | 0 | 0 | 0 | 0.5 | 1   | 1   | 2   | 2   | 2   | 2   | 2 |  |
| Zürich (Spectrohelioc.) |     | 0.5 | 0   | 0   | 0   |     | 0   |   |   |     |     | 0   | 0   | 0.5 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1   | 1   | 1   | 1.5 | 1.5 |     |     |   |  |
| Mean                    | 0.8 | 0.7 | 0.3 | 0.4 | 0.5 | 0.3 | 0.2 | 0 | 1 | 1   | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.9 | 0.8 | 1.1 | 2   | 1.8 | 1.8 |   |  |

#### March

|                         |     |     |   |   |     |     |     |     |   |                |     |     |   |   |   |     |   |   |     |     |     |   |     |     |     |   |     |     |   |     |     |
|-------------------------|-----|-----|---|---|-----|-----|-----|-----|---|----------------|-----|-----|---|---|---|-----|---|---|-----|-----|-----|---|-----|-----|-----|---|-----|-----|---|-----|-----|
| Arcetri/Firenze         |     |     |   |   |     |     |     | 0.5 |   |                |     |     |   | 0 |   |     |   |   |     |     |     |   |     |     |     |   |     |     |   | 0.5 | 0.5 |
| Evershed/Ewhurst        | 2   | 2   |   |   |     |     |     |     |   |                |     |     |   |   |   |     | 0 | 0 |     |     |     |   |     |     |     |   |     |     |   |     |     |
| Kodaikanal              | 2   | 2   | 2 |   | 1   | 1   | 1   | 2   | 1 | 0              | 1   | 1   | 0 | 0 | 0 | 1   | 0 | 0 | 1   | 1   | 1   | 1 | 1   | 1   | 1   | 1 | 1   | 1   | 1 | 1   | 1   |
| Meudon/Paris            | 1.5 | 1.5 |   | 1 | 1   | 1   |     |     |   | 0              | 0   | 0   | 0 | 0 | 0 | 0   | 0 | 0 | 0   | 0   | 0   | 0 | 0   | 0   | 0   | 0 | 0   | 0   | 0 | 0   | 0   |
| Mount Wilson            | 2   | 2   |   | 1 | 2   | 2   | 2   |     | 1 | 1 <sub>a</sub> | 0.5 |     |   |   |   |     | 0 | 0 | 0   | 0.5 | 1   | 1 | 1   | 1   | 1   | 1 | 1   | 1   | 1 | 1   | 1   |
| Zürich (Spectrohelioc.) | 1.5 |     | 2 |   | 1.5 |     |     |     |   |                | 0   | 0   | 0 | 0 | 0 | 0   | 0 | 0 | 0   | 0.5 | 0   | 0 | 0   | 0   | 0   | 0 | 0.5 |     |   |     |     |
| Mean                    | 1.8 | 1.9 | 2 | 1 | 1.5 | 1.3 | 1.3 | 1.2 | 1 | 0.2            | 0.5 | 0.3 | 0 | 0 | 0 | 0.3 | 0 | 0 | 0.4 | 0.3 | 0.5 | 1 | 0.7 | 0.5 | 0.4 | 1 | 0.6 | 0.7 | 1 | 0.8 | 0.6 |

#### Central Zone

| Observatory             | January |     |   |     |   |     |     |   |     |     |    |    |    |     |    |    |    |    |     |     |    |    |    |     |     |     |     |     |    |    |     | 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  |      |
| Arcetri/Firenze         |         | 0.5 |   |     |   |     |     |   |     | 0.5 |    |    | 0  | 0.5 |    |    |    |    |     | 0   | 0  | 0  |    |     | 0.5 | 0.5 | 0   | 0.5 | 0  | 0  | 0.5 |      |
| Evershed/Ewhurst        |         |     |   |     |   |     |     |   |     |     |    |    |    |     |    |    |    |    |     |     |    |    |    |     | 0   |     |     |     |    |    |     |      |
| Kodaikanal              | 2       | 0   | 0 | 0   | 1 | 0   | 1   | 2 | 2   | 1   | 0  |    | 0  | 1   | 1  | 0  | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0   | 0   | 1   | 0   | 0   | 0  | 0  | 1   |      |
| Meudon/Paris            | 1       |     |   |     |   |     |     |   |     | 0   |    |    |    | 0   |    |    |    |    |     | 0   | 0  | 0  |    | 0   | 0   | 1   | 0.5 |     |    |    |     |      |
| Mount Wilson            | 2       | 0.5 |   | 1   | 1 | 1   | 2   |   | 1   | 0   | 0  |    |    |     |    |    | 0  | 0  | 0.5 | 0.5 | 0  | 0  | 0  | 0.5 | 1   |     |     | 0.5 | 0  |    |     |      |
| Zürich (Spectrohelioc.) |         |     |   |     | 1 |     |     |   | 0.5 | 0   |    |    |    |     |    |    | 0  |    |     |     |    |    |    | 0   |     |     |     |     |    | 0  | 1   |      |
| Mean                    | 1.7     | 0.3 | 0 | 0.5 | 1 | 0.5 | 1.5 | 2 | 1.2 | 0.3 | 0  |    | 0  | 0.5 | 1  | 1  | 0  | 0  | 0.2 | 0.1 | 0  | 0  | 0  | 0.1 | 0.9 | 0.3 | 0.5 | 0.3 | 0  | 0  | 0.6 |      |

#### February

|                         |     |     |   |   |   |   |   |   |   |   |     |     |   |   |     |   |   |   |   |   |   |   |     |     |     |     |     |     |     |   |  |  |
|-------------------------|-----|-----|---|---|---|---|---|---|---|---|-----|-----|---|---|-----|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|---|--|--|
| Arcetri/Firenze         | 0.5 | 0.5 |   |   |   | 0 | 0 |   |   |   |     | 0.5 |   |   |     |   |   |   |   | 0 | 0 | 0 | 0   | 0   | 0.5 |     |     |     |     |   |  |  |
| Evershed/Ewhurst        |     |     |   | 0 |   |   | 0 |   |   |   |     |     |   |   |     |   | 0 |   |   |   |   |   |     |     |     |     |     |     |     |   |  |  |
| Kodaikanal              | 1   | 1   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1   | 1   | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 1   | 1   | 1   | 2   | 1   | 0 |  |  |
| Meudon/Paris            |     |     | 0 | 0 |   | 0 | 0 |   |   |   | 0.5 | 0.5 | 0 | 0 |     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 1.5 | 1   | 1   | 2   | 1.5 | 0 |  |  |
| Mount Wilson            |     |     |   | 0 |   |   |   |   |   |   | 1   | 1   |   |   |     |   |   |   | 0 | 0 | 0 | 0 | 0.5 | 1   | 2   | 2   | 2   | 2   | 0   |   |  |  |
| Zürich (Spectrohelioc.) |     | 0.5 | 0 | 0 | 0 |   | 0 |   |   |   |     |     | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 1   | 1   | 1   | 1.5 |     |     |   |  |  |
| Mean                    | 0.8 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.8 | 0.8 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.8 | 1.2 | 1.2 | 2   | 1.5 | 0   |   |  |  |

#### March

|                         |   |     |     |     |     |     |     |     |   |                  |     |   |   |   |   |   |   |   |     |     |     |   |     |     |     |     |   |     |     |     |     |
|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|---|------------------|-----|---|---|---|---|---|---|---|-----|-----|-----|---|-----|-----|-----|-----|---|-----|-----|-----|-----|
| Arcetri/Firenze         |   |     |     |     |     |     |     | 0.5 |   |                  |     |   |   | 0 |   |   |   |   |     |     |     |   |     |     |     |     |   |     |     | 0.5 | 0.5 |
| Evershed/Ewhurst        | 0 | 0   |     |     |     |     |     |     |   |                  |     |   |   |   |   |   |   | 0 | 0   |     |     |   |     |     |     |     |   |     |     |     |     |
| Kodaikanal              | 0 | 0   | 0   |     | 1   | 1   | 0   | 1   | 0 | 0                | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 1   | 1 | 1   | 1   | 1   | 0   | 0 | 0   | 0   | 1   | 1   |
| Meudon/Paris            | 0 | 0   |     | 1.5 |     | 0.5 | 0.5 |     |   | 0                | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0.5 | 0.5 |   |     | 0   | 0   | 0   | 0 | 0   | 0   | 0   | 0   |
| Mount Wilson            | 0 | 1   |     | 2   | 2   | 1   | 1   |     | 0 | 0.5 <sub>a</sub> | 0.5 |   |   |   |   |   | 0 | 0 | 0   | 0.5 | 0   | 0 | 0   | 1   | 1   | 1   | 1 | 1   | 1   | 1   | 1.5 |
| Zürich (Spectrohelioc.) | 0 |     | 1   |     | 1.5 |     |     |     |   | 0                |     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0   | 0   | 0 | 0   | 0   | 0   | 0   | 0 | 0   | 0   | 0   | 0   |
| Mean                    | 0 | 0.2 | 0.5 | 1.8 | 1.5 | 0.8 | 0.5 | 0.8 | 0 | 0.1              | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0.5 | 0.6 | 1 | 0.7 | 0.5 | 0.2 | 0.5 | 0 | 0.3 | 0.5 | 0.8 | 0.8 |

a low weight

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

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity, 0 representing absence or rarity, 5 extreme abundance and intensity of the floculli. As central zone a circular surface of a semi-diameter of the sun's disc has been taken.

Whole Sun Disc  
1932

| 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  |      |     |
| Arcetri/Firenze          |       |     |     |     |     |     |     |     | 0 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| Evershed/Ewhurst         |       |     |     |     |     |     |     |     |   |    |     |     | 0   |     |     |     |     |     |     |     |     |     | 1   |     |     |     | 1   |     |     |     |     |      |     |
| Kodaikanal               | 0.5   | 0.5 | 1   | 1   | 0.5 | 0.5 | 0.5 | 0.5 | 0 | 0  | 0.5 | 0.5 |     | 1   | 1   | 0.5 | 0.5 | 0.5 | 1   |     | 0.5 | 0.5 | 1   | 1   | 1   | 1.5 | 1.5 | 1   | 1   | 1   | 1   |      |     |
| Meudon/Paris             | 0     |     |     |     |     |     | 0   | 0   | 0 | 0  | 0   | 0   | 0   | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |     | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |     | 1   |     |     |     |      | 0.5 |
| Mount Wilson             | 1     | 2   | 1   | 0.5 | 0   | 0   |     | 0   | 0 | 0  | 0   | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |     | 1   | 1   | 1   | 1   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  |     |
| Zürich (Spectroheliosc.) |       | 0.5 | 0   | 0   |     |     |     |     |   |    |     |     |     |     |     |     |     |     |     |     | 1   | 1   | 1   | 1   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  |     |
| Mean                     | 0.5   | 1   | 0.7 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0 | 0  | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.8 |     | 0.8 | 0.8 | 0.8 | 0.8 | 1   | 1.3 | 1.3 | 1.1 | 1.2 | 0.9 | 0.6 |      |     |

| Observatory              | May |     |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 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  |      |     |
| Arcetri/Firenze          |     |     |   |   |   |   |   | 0 |     |     |     |     | 0.5 | 0.5 | 0.5 |     | 1   |     |     |     | 1   | 1   |     |     |     |     |     |     |     |     |     | 0.5  |     |
| Evershed/Ewhurst         | 0   |     |   |   |   |   | 0 | 0 |     | 0   |     |     |     |     |     |     | 1   | 1   | 1.5 |     |     |     |     |     |     | 1   | 1   |     |     |     |     | 0    |     |
| Kodaikanal               | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |     |     | 1   | 1.5 | 1.5 | 1.5 | 2   | 1.5 |     |     | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  |     |
| Meudon/Paris             |     |     |   |   |   |   | 0 | 0 | 0   | 0   | 0   | 0   | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5  | 0.5 |
| Mount Wilson             | 0   | 0   |   |   |   |   | 0 | 0 | 0   | 0   | 0   | 0.5 | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2    | 2   |
| Zürich (Spectroheliosc.) |     |     | 0 |   |   |   | 0 | 0 |     | 0.5 |     | 0.5 | 1   | 1   |     | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2    |     |
| Mean                     | 0.2 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.2 | 0.5 | 0.7 | 0.6 | 0.8 | 1.2 | 1.5 | 1.6 | 1.8 | 1.8 | 1.6 | 1.5 | 2   | 1.6 | 1.5 | 1.2 | 1.5 | 1.2 | 1.1 | 0.5 | 0.4 | 0.2 | 0.8  |     |

| Observatory              | June |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 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  |      |  |
| Arcetri/Firenze          |      |   |     | 0.5 |     |     |     |     |     | 0.5 | 1   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| Evershed/Ewhurst         |      |   |     |     |     |     |     |     | 0   |     |     |     | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| Kodaikanal               | 0    | 0 | 0   |     | 1   | 1   | 1   | 1   | 1.5 | 2   | 1.5 | 1.5 | 1.5 | 1   | 0.5 | 1   | 0.5 | 1   | 0.5 | 1   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  |  |
| Meudon/Paris             | 0    | 0 | 0   | 0   |     |     | 0.5 | 1   | 1   | 1.5 | 1.5 | 1   | 0.5 | 0.5 | 0   | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5  |  |
| Mount Wilson             | 0    | 0 | 1   | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 0.5 | 1   | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2    |  |
| Zürich (Spectroheliosc.) |      | 0 | 1   | 1   | 1.5 |     | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 0   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  |  |
| Mean                     | 0    | 0 | 0.3 | 0.5 | 1   | 1.2 | 0.8 | 1.5 | 1.2 | 1.7 | 1.8 | 1.6 | 0.8 | 0.9 | 0.2 | 0.7 | 0.9 | 0.9 | 1   | 1.2 | 1.8 | 1.6 | 1.4 | 1.7 | 1.8 | 1.6 | 1.4 | 1   | 1.4 | 1.1 | 1.1 |      |  |

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 |      |  |
| Arcetri/Firenze          |       |     |   |   |   |   |     |     |   | 0  |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |    |    |    |      |  |
| Evershed/Ewhurst         |       |     |   |   |   |   |     |     |   |    |    |    | 0   |     |     |     |     |    |    |    |    |    |    |     |    |     | 1.5 |     | 0  |    |    |      |  |
| Kodaikanal               | 0.5   | 0   | 0 | 0 | 0 | 0 | 0.5 | 0.5 | 0 | 0  | 0  | 0  | 0   | 1   | 1   | 0.5 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0  | 0  | 0    |  |
| Meudon/Paris             | 0.5   |     |   |   |   |   | 0   | 0   | 0 | 0  | 0  | 0  | 0   | 0   | 0   | 0.5 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0  | 0  | 0    |  |
| Mount Wilson             | 1     | 0.5 | 0 | 0 | 0 | 0 | 0   | 0   | 0 | 0  | 0  | 0  | 0.5 | 1   | 0.5 | 1   | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0  | 0  | 0    |  |
| Zürich (Spectroheliosc.) |       | 0   | 0 | 0 |   |   |     |     |   |    |    |    |     | 0.5 | 0.5 | 0.5 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0  | 0  | 0    |  |
| Mean                     | 0.7   | 0.2 | 0 | 0 | 0 | 0 | 0.2 | 0.2 | 0 | 0  | 0  | 0  | 0.2 | 0.8 | 0.7 | 0.8 | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0.3 | 1  | 1.2 | 1.5 | 1.2 | 0  | 0  | 0  | 0.3  |  |

| Observatory              | May |   |   |   |   |   |   |   |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 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  |      |   |
| Arcetri/Firenze          |     |   |   |   |   |   |   | 0 |   |    |     |     | 0.5 | 0.5 | 0.5 |     |     |     |     |     | 1   | 1   | 1   |     |     |     |     |     |     |     |     |      |   |
| Evershed/Ewhurst         | 0   |   |   |   |   |   | 0 | 0 |   | 0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1   | 1   |     |     |     | 0.5  |   |
| Kodaikanal               | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0   | 0   | 0.5 | 0.5 |     | 0.5 | 0.5 | 1   |     |     |     |     |     | 0.5 |     |     |     |     |     | 0.5 | 0   | 0    | 0 |
| Meudon/Paris             |     |   |   |   |   |   | 0 | 0 | 0 | 0  | 0   | 0   | 0   | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5  |   |
| Mount Wilson             | 0   | 0 |   |   |   |   | 0 | 0 | 0 | 0  | 0   | 0   | 1   | 1   | 1   | 2   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2    | 2 |
| Zürich (Spectroheliosc.) |     |   | 0 |   |   |   | 0 | 0 |   | 0  |     | 0.5 | 1   | 0.5 |     | 1   | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 1   |     | 1   | 1   | 1   | 1   | 1   | 1.5 | 0   | 0   | 0    |   |
| Mean                     | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0.2 | 0.7 | 0.6 | 0.7 | 1   | 0.8 | 1.2 | 1.7 | 1.5 | 1.8 | 1   | 2   | 1   | 1   | 1   | 1.3 | 1.5 | 0.9 | 0   | 0   | 0   | 0.6  |   |

| Observatory              | June |   |   |   |   |     |   |     |     |     |     |    |     |    |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |     |     | 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  |      |   |
| Arcetri/Firenze          |      |   |   | 0 |   |     |   |     |     | 0.5 | 1.5 |    |     |    |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |     |     |      |   |
| Evershed/Ewhurst         |      |   |   |   |   |     |   |     |     | 0   |     |    |     | 0  |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |     |     |      |   |
| Kodaikanal               | 0    | 0 | 0 |   | 0 | 0   | 1 | 1   | 1   | 2.5 | 1   | 1  | 1   | 0  | 0  | 0.5 | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0   | 0  | 0  | 0   | 0   | 0   | 0    | 0 |
| Meudon/Paris             | 0    | 0 | 0 | 0 |   |     | 1 | 1   | 1.5 | 2.5 | 1   | 1  | 1   | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0   | 0  | 0  | 0   | 0   | 0   | 0    | 0 |
| Mount Wilson             | 0    | 0 | 0 |   |   | 0.5 | 1 | 2   | 2   | 2   | 2   | 1  | 1   | 1  | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0   | 0  | 0  | 0   | 0   | 0   | 0    | 0 |
| Zürich (Spectroheliosc.) |      | 0 | 0 |   |   | 0   | 0 | 1.5 | 2   | 2   | 1   | 1  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0  | 0   | 0   | 0  | 0  | 0   | 0   | 0   | 0    | 0 |
| Mean                     | 0    | 0 | 0 | 0 | 0 | 0.2 | 1 | 1.4 | 1.2 | 2.1 | 1   | 1  | 0.6 | 0  | 0  | 0.2 | 0  | 0  | 0  | 0  | 0  | 0.6 | 1.5 | 2  | 1.6 | 0.5 | 0  | 0  | 0.2 | 1.1 | 1.5 | 0.6  |   |

a Small areas very bright H $\alpha$  southeast group.  
 b Small areas very bright H $\alpha$  on the east limb.  
 c Bright eruption at 10 h G. C. T.  
 d Small bright eruption at 16 h G. C. T.  
 e Small bright eruptions at 11 h 10 m and 14 h 30 m G. C. T.

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

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity, 0 representing absence or rarity, 5 extreme abundance and intensity of the flocculi. As central zone a circular surface of a semi-diameter of the sun's disc has been taken.

Whole Sun Disc  
1932

| Observatory              | July |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     | 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  |      |  |
| Arcetri/Firenze          | 1    |     |     | 1   | 1   | 0.5 |     |     |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     | 0.5 |    |     |     |     | 0.5 |     | 0.8  |  |
| Evershed/Ewhurst         |      |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |      |  |
| Kodaikanal               | 1    | 1.5 |     |     |     | 1.5 | 1.5 |     |     |     |     | 0.5 |    |    | 0.5 | 0.5 |     | 0.5 | 0   | 0   |    | 0   |     |     |     |    | 0   | 0   | 0   | 0.5 | 0.5 | 0.5  |  |
| Meudon/Paris             | 1.5  | 1.5 | 1.5 | 1.5 | 1.5 | 1   |     | 0.5 | 0   | 0   |     | 0   |    | 0  |     |     |     |     |     |     |    |     | 0   | 0   |     |    | 0   | 0   | 0   | 0   | 0   | 0.4  |  |
| Mount Wilson             | 2    | 2   | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 0   | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1   | 1  | 0.5 | 0.5 | 0   | 0   | 0  | 0   | 0.5 | 0.5 | 1   | 1   | 0.9  |  |
| Zürich (Spectroheliosc.) | 1.5  |     | 2   | 1.5 | 2   | 1   | 1   |     |     |     | 0.5 | 0.5 | 0  |    | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |     |    | 0.5 |     | 0.5 | 0.5 | 0  | 0.5 | 0.5 | 0.5 | 1   | 1   | 0.8  |  |
| Mean                     | 1.4  | 1.7 | 1.8 | 1.5 | 1.6 | 1.2 | 1.5 | 0.8 | 0.5 | 0.5 | 0.8 | 0.2 | 0  | 0  | 0.3 | 0.3 | 0.5 | 0.7 | 0.4 | 0.3 | 1  | 0.3 | 0.2 | 0.2 | 0.3 | 0  | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 0.6  |  |

| Observatory              | August |     |   |     |     |   |     |   |   |     |     |     |    |    |    |    |    |    |    |    |     |    |    |    |     |     |     |     |     |     |     | 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  |      |     |
| Arcetri/Firenze          | 0.5    | 0.5 |   | 0.5 |     |   |     |   | 0 | 0.5 | 0.5 | 0   |    |    |    |    |    |    |    |    | 0   |    | 0  | 0  |     |     | 0.5 | 0.5 |     |     |     | 0.3  |     |
| Evershed/Ewhurst         |        |     |   |     |     |   |     |   |   |     |     |     |    |    |    |    |    |    |    |    |     |    |    |    |     |     |     |     |     |     |     |      |     |
| Kodaikanal               |        |     |   |     | 0   |   |     | 0 | 0 | 0   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.5 | 0  | 0  | 0  | 0.5 | 1   | 1.5 | 1   |     | 1   | 0.5 | 0.3  |     |
| Meudon/Paris             | 0.5    |     |   | 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   | 0   | 0.0  |     |
| Mount Wilson             | 1      | 1   | 1 | 1   | 0.5 | 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   | 0.4  |     |
| Zürich (Spectroheliosc.) |        | 0.5 |   |     | 0.5 | 0 | 0   | 0 | 0 | 0   | 0   | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0   | 0   | 1   | 0.5 | 0.5 | 0.5 | 0   | 0.2  |     |
| Mean                     | 0.7    | 0.7 | 1 | 0.5 | 0.2 | 0 | 0.1 | 0 | 0 | 0.1 | 0.2 | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.1 | 0  | 0  | 0  | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.6 | 0.1  | 0.3 |

| Observatory              | September |   |     |   |   |   |   |   |   |    |    |    |     |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     | 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  |      |     |
| Arcetri/Firenze          |           |   |     |   |   |   | 0 |   |   |    |    |    |     |    | 0  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |      |     |
| Evershed/Ewhurst         |           |   |     |   |   |   |   |   |   |    |    |    |     |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |      |     |
| Kodaikanal               |           |   | 0.5 |   | 0 |   | 0 | 0 | 0 | 0  | 0  | 0  | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.5 | 0   | 0.5 | 0.5 |     | 0.5 | 0.5 | 0.5 |     | 0.2  |     |
| Meudon/Paris             | 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   | 0   | 0   | 0.0  |     |
| Mount Wilson             | 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   | 0   | 0   | 0.0  |     |
| Zürich (Spectroheliosc.) | 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   | 0   | 0.0  |     |
| Mean                     | 0         | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0.2 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0.2 | 0   | 0.2 | 0.2 | 0   | 0   | 0.5 | 0.2 | 0.2  | 0.1 |

## Central Zone

| Observatory              | July |     |     |     |     |     |     |   |   |    |    |    |    |    |    |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    | 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 |      |     |
| Arcetri/Firenze          | 1    |     |     | 0.5 | 0.5 | 0.5 |     |   |   |    |    |    |    |    |    |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    |      | 0.4 |
| Evershed/Ewhurst         |      |     |     |     |     |     |     |   |   |    |    |    |    |    |    |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    |      |     |
| Kodaikanal               | 1.5  | 1.5 |     |     |     | 1.5 | 1.5 |   |   |    |    | 0  |    |    | 0  | 0  |     | 0   | 0   | 0   | 0  | 0  |     |     |    |    | 0  | 0  | 0  | 0  | 0  | 0.4  |     |
| Meudon/Paris             | 1.5  | 2   | 0.5 | 0.5 | 1   | 1   |     | 1 | 0 | 0  |    | 0  |    | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.3  |     |
| Mount Wilson             | 2    | 2   | 1   | 1   | 2   | 2   | 2   | 1 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1   | 1   | 1   | 1   | 1  | 1  | 0   | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.6  |     |
| Zürich (Spectroheliosc.) | 1.5  |     | 1   | 0.5 | 1.5 | 1   | 1   |   |   |    |    | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.3  |     |
| Mean                     | 1.5  | 1.8 | 0.8 | 0.6 | 1.2 | 1.2 | 1.5 | 1 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.3 | 0.3 | 0.4 | 0.3 | 1  | 0  | 0.2 | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.1  | 0.4 |

| Observatory              | August |     |   |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     | 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  |      |     |
| Arcetri/Firenze          | 0.5    | 0.5 |   | 0.5 |   |   | 0 |   | 0 | 0  | 0  | 0  | 0  |    |    |    |    |    |    |    |    | 0  |    | 0  | 0   |     | 0.5 | 0.5 |     |     |     | 0.2  |     |
| Evershed/Ewhurst         |        |     |   |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |      |     |
| Kodaikanal               |        |     |   |     | 0 |   | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0.5 | 1.5 | 0.5 |     | 0.5 | 0   | 0.1  |     |
| Meudon/Paris             | 1      |     |   | 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 | 0.5 |     | 0   | 0   | 0.1  |     |
| Mount Wilson             | 2      | 1   | 1 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0.5 | 1   | 1   | 0.5 | 0.5 | 1   | 0.3  |     |
| Zürich (Spectroheliosc.) |        | 0.5 |   |     | 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   | 0.1  |     |
| Mean                     | 1.2    | 0.7 | 1 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.1 | 0.8 | 0.8 | 0.5 | 0.2 | 0.2 | 0.4 | 0    | 0.2 |

| Observatory              | September |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    | 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 |      |     |
| Arcetri/Firenze          |           |   |   |   |   |   | 0 |   |   |    |    |    |    |    | 0  |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |      |     |
| Evershed/Ewhurst         |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |      |     |
| Kodaikanal               |           |   | 0 |   | 0 |   | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0.5 | 0.5 |    | 0  | 0  | 0  | 0  | 0.0  |     |
| Meudon/Paris             | 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  | 0  | 0  | 0.0  |     |
| Mount Wilson             | 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  | 0  | 0  | 0.0  |     |
| Zürich (Spectroheliosc.) | 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  | 0  | 0.0  |     |
| 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  | 0.5 | 0.3 | 0  | 0  | 0  | 0  | 0  | 0    | 0.0 |

### Character Figures for bright H $\alpha$ -Floculi.

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity, 0 representing absence or rarity, 5 extreme abundance and intensity of the floculi. As central zone a circular surface of a semi-diameter of the sun's disc has been taken.

#### Whole Sun Disc 1932

| 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  |      |   |   |     |     |     |     |
| Arcetri/Firenze          |         |     |     |     |     |     |     |     |     |     |     |     |    |    |    | 0.5 | 0.5 | 0.5 |     | 0.5 |     | 0.5 |     |     |     |     |     |     |     |     |     |      |   |   |     |     | 0.4 |     |
| Evershed/Ewhurst         |         |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |   |   |     |     |     | 0.3 |
| Kodaikanal               | 0       |     | 0   | 0   | 0   |     | 0   | 0   |     |     |     |     |    |    |    | 0   | 0   | 1   |     | 1   |     | 1   | 1   |     |     |     |     |     |     |     |     |      |   |   |     | 0.4 |     |     |
| Meudon/Paris             | 0       | 0   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0   | 0  | 0  | 0  | 1.5 | 1.5 | 2   |     | 2   | 2   | 1.5 | 1.5 | 2   | 2   | 1   | 0.5 | 0   | 0   | 0   | 0.5 | 0.5  | 0 | 0 | 0   | 0.8 |     |     |
| Mount Wilson             | 0       | 0.5 | 0.5 | 0.5 | 0.5 |     | 0   | 0   |     |     |     |     |    |    |    |     |     |     | 1   | 1.5 | 1.5 | 1.5 | 1.5 |     |     |     |     |     |     |     |     |      |   |   |     | 0.6 |     |     |
| Zürich (Spectroheliosc.) | 0       | 0.5 | 0.5 | 0.5 | 0.5 |     | 0   | 0   |     |     |     |     |    |    |    |     |     |     | 1   | 1.5 | 1.5 | 1.5 | 1.5 |     |     |     |     |     |     |     |     |      |   |   |     | 0.6 |     |     |
| Mean                     | 0       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0  | 0  | 0  | 0.8 | 0.2 | 0.7 | 1.1 | 1.7 | 1   | 1.8 | 1.3 | 1.5 | 1.8 | 1.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0   | 0    | 0 | 0 | 0.5 |     |     |     |

| Observatory              | November |     |     |     |     |     |   |   |   |    |    |    |     |     |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    |    | 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 |      |   |   |   |     |     |     |
| Arcetri/Firenze          |          | 0   | 0   |     | 0   |     |   |   |   |    |    |    |     |     |    | 0   | 0   | 0   | 0.5 |    |    |     |     |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.1 |     |
| Evershed/Ewhurst         |          |     |     |     |     |     |   |   |   |    |    |    |     |     |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    |    |      |   |   |   |     |     | 0.7 |
| Kodaikanal               |          |     |     |     | 1   |     | 0 |   |   |    | 0  |    | 1   | 1   | 1  | 1   | 1   | 1   | 1   |    |    |     | 1   |    |    |    | 0  |    | 0  |    |    |      |   |   | 1 |     | 0.0 |     |
| Meudon/Paris             | 0        | 1   | 0   | 0   | 0   | 0   | 0 |   |   |    |    |    | 0.5 |     |    |     |     |     |     |    |    | 0   |     | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.4 |     |
| Mount Wilson             | 0        | 1   | 0.5 | 0.5 | 0.5 | 0.5 | 0 | 0 | 0 | 0  | 0  | 1  | 1   | 1   | 1  | 1   | 1   | 1   | 1   | 1  | 1  | 0.5 | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.5 |     |
| Zürich (Spectroheliosc.) | 0        | 1   | 0.5 | 0.5 | 0   |     |   |   |   |    |    |    |     |     |    |     |     |     |     |    |    |     |     |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.4 |     |
| Mean                     | 0        | 0.5 | 0.2 | 0.3 | 0.3 | 0.5 | 0 | 0 | 0 | 0  | 0  | 1  | 1   | 0.8 | 1  | 0.7 | 0.7 | 0.7 | 0.8 | 1  | 1  | 0.8 | 0.3 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 1 | 0.4 |     |     |

| Observatory              | December |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    | 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 |      |   |     |   |     |     |     |
| Arcetri/Firenze          |          |   |     |     |     |     |     |     |     |    |    |    |    |    |    | 0.5 |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |      |   |     |   |     | 0.6 |     |
| Evershed/Ewhurst         |          |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |      |   |     |   |     |     | 0.5 |
| Kodaikanal               | 1        | 1 | 1*  |     | 2   | 1   | 1   | 1   | 1   | 1  |    |    | 1  |    |    |     | 1   | 1   | 0   | 0   | 0   |     |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0   | 0 | 0   | 0.6 |     |
| Meudon/Paris             | 1        | 1 | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |    |    |    |    |     | 0.5 | 0.5 | 0.5 | 0.5 | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0   | 0 | 0   | 0.5 |     |
| Mount Wilson             | 1        | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1  |    |    |    |    |    |     | 1   | 1.5 | 1   | 1   |     |     |    |    |    |    |    |    |    |    |    |      |   |     |   | 0   | 0.7 |     |
| Zürich (Spectroheliosc.) | 1        | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1  |    |    |    |    |    |     | 0.5 | 0.5 | 0.5 | 0.5 | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0.5 | 0 | 0.6 |     |     |
| Mean                     | 1        | 1 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 1.2 | 1   |    |    |    |    |    |    | 0.5 | 1   | 0.8 | 0.8 | 0.8 | 0.2 | 0.1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0.2 | 0 | 0.5 |     |     |

#### 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 |      |   |   |   |     |     |     |
| Arcetri/Firenze          |         |   |   |     |     |     |     |     |   |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |      |   |   |   |     |     | 0.3 |
| Evershed/Ewhurst         |         |   |   |     |     |     |     |     |   |    |    |    |    |    |    |     | 0  | 0   | 0.5 |     | 0.5 |     | 0.5 |     |     |     |     | 0.5 |    |    |    |      |   |   |   |     | 0.4 |     |
| Kodaikanal               | 0       |   | 0 | 0   | 1   |     | 0   | 0   |   |    |    |    |    |    |    | 0   | 0  | 1   |     | 1   |     | 1   | 1   |     |     |     |     |     |    |    |    |      |   |   |   |     | 0.4 |     |
| Meudon/Paris             | 0       | 0 | 0 | 0   | 0.5 | 0.5 | 0.5 |     |   |    |    |    | 0  | 0  |    |     |    |     | 1.5 | 1.5 |     |     | 2   | 1   |     |     | 1   | 0.5 | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.5 |     |
| Mount Wilson             | 0       | 0 | 0 | 0.5 | 1   | 1   | 1   | 0.5 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 1  | 2   | 2   |     | 2   | 2   | 1   | 2   | 2   | 1   | 0   | 0   | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.7 |     |
| Zürich (Spectroheliosc.) | 0       | 0 | 0 | 0.5 | 0.5 |     |     |     |   |    |    |    |    |    |    |     |    |     | 0.5 | 1.5 | 1.5 | 1   | 0.5 | 1.5 |     |     |     |     |    |    |    |      |   |   |   | 0.4 |     |     |
| Mean                     | 0       | 0 | 0 | 0.2 | 0.8 | 0.8 | 0.4 | 0.2 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0.5 | 0  | 0.3 | 1.1 | 1.7 | 0.8 | 1.2 | 1.4 | 1   | 1.8 | 1.5 | 0.7 | 0   | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0.5 |     |     |

| Observatory              | November |     |     |     |   |   |   |   |   |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    | 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 |      |   |   |   |     |     |     |
| Arcetri/Firenze          |          | 0   | 0.5 |     | 0 |   |   |   |   |    |    |    |     |     |     | 0.5 | 0.5 | 0.5 | 0.5 |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.4 |     |
| Evershed/Ewhurst         |          |     |     |     |   |   |   |   |   |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     |     | 0.4 |
| Kodaikanal               |          |     |     |     |   |   |   |   |   |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     |     | 0.1 |
| Meudon/Paris             | 0        |     | 0.5 | 0.5 | 0 |   | 0 |   |   |    |    |    | 0   | 0   | 1   | 1   | 1   | 1   | 1   |    |    |    |    |    |    |    | 0  |    | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0   | 0.1 |
| Mount Wilson             | 0        | 1   | 1   | 0   | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0.5 | 1   | 2   | 2   | 2   | 1   | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.5 |     |
| Zürich (Spectroheliosc.) | 0        | 0   | 0.5 | 0.5 | 0 |   |   |   |   |    |    |    |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.1 |     |
| Mean                     | 0        | 0.5 | 0.6 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0.2 | 0.3 | 1.5 | 1.2 | 1.2 | 0.8 | 0.8 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0.2 |     |     |

| Observatory              | December |   |     |     |     |   |   |   |   |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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 |      |   |   |   |     |     |     |
| Arcetri/Firenze          |          |   |     |     |     |   |   |   |   |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     |     | 0.3 |
| Evershed/Ewhurst         |          |   |     |     |     |   |   |   |   |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     |     | 0.2 |
| Kodaikanal               | 0        | 0 | 1*  |     | 2   | 2 | 1 | 0 | 0 |    |    |    |    |    | 1  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.3 |     |
| Meudon/Paris             | 0        | 0 | 1.5 | 1.5 |     |   |   |   |   |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.2 |     |
| Mount Wilson             | 0        | 0 | 2   | 2   | 2   | 2 | 1 | 0 | 0 |    |    |    |    |    |    | 0.5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0   | 0.5 |     |
| Zürich (Spectroheliosc.) | 0        | 0 | 2   | 2   | 1   |   |   |   |   |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |   |   |   |     | 0.3 |     |
| Mean                     | 0        | 0 | 1.5 | 1.8 | 1.6 | 2 | 1 | 0 | 0 |    |    |    |    |    | 1  | 0.8 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0    | 0 | 0 | 0 | 0.4 |     |     |

\* Unusually bright and narrow.

Meudon: éruption d'hydrogène  
Greenwich (Spectrohelioscope): small bright eruptions

Zürich (Spectrohelioscope): small bright eruption  
very small but bright eruption  
small bright eruption

|          |     |         | $\phi$     | L    | Eclat      |
|----------|-----|---------|------------|------|------------|
| December | 20. | 11 h 14 | + 11       | + 80 | 1          |
| October  | 6.  | 10 h 7  | 7° E of CM |      | 11° N lat. |
| "        | 18. | 12 h 5  | 78° E "    | "    | 10° N "    |
| December | 3.  | 13 h 0  | 16° E "    | "    | 5° N "     |
| October  | 18. | 10 h 6  | 80° E "    | "    | 10° N "    |
| "        | 20. | 10 h 3  | 58° W "    | "    | 10° N "    |
| December | 20. | 13 h 0  | 81° W "    | "    | 11° N "    |