

Character Figures for dark H α -Floculi.

The character figures are assigned on a 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						1	1.5	1			0.5	0.5	0	0.5	0	0.5	0	0.5	0		
Evershed/Ewhurst																																			1
Kodaikanal	1	1	1	1	2	1	1	0	0	1	1		1	2	1	1	2	2	2	3	3		2	2	2	2	2	1	1	1	1	1	1	1	
Meudon/Paris	0									0				0					1	1	1		1	1	0.5	0.5								0.5	
Mount Wilson	0.5	1		1	0.5	0.5	0.5		0.5	0.5	0.5						1	1	1	2	2	1	1	1	0.5			0	0.5					0.5	
Zürich (Spectroheliosc.)					0.5				0.5								1													0.5	1b				0.6
Mean	0.5	0.8	1	1	1	0.8	0.8	0	0.3	0.5	0.8		0.5	0.7	1	1	1.3	1.5	1.5	1.8	1.9	1	1.5	0.8	0.9	1	1	0.5	0.5	0.6	0.8	0.9	0.9		

February

Arcetri/Firenze	0.5	0.5				0	0					0.5								0		0.5	0	0	0									0.2	
Evershed/Ewhurst				1			1											2		0		0	0	0	0										1.8
Kodaikanal	2	1	0	0	1	1	2	1	2	3	3	3	3	3	3	5	4	4	5	2	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0.8
Meudon/Paris			0	0		0	0				1	1.5	1.5	1.5		2	2	2	1.5		0.5			0	0	0	0	0	0	0	0	0	0	0	0.8
Mount Wilson			0								1								1	0.5	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0.9	
Zürich (Spectroheliosc.)	0.5	0.5	0	0							1	1	2	2	2.5	2.5	2.5	2	2	2	1	0.5	0	0	0	0	0	0	0	0	0	0	0	0.9	
Mean	1.2	0.7	0.2	0.2	0.5	0.3	0.6	1	2	3	1.7	1.5	2.2	2.2	2.8	3.2	2.8	2.5	2.4	0.8	0.3	0.2	0.2	0	0.2	0.1	0.5	0	0	0	0	0	1.1		

March

Arcetri/Firenze								0.5																										0	0.5
Evershed/Ewhurst	0	0																0	1																0.9
Kodaikanal	0	0	1		0	1	1	1	1	0	0	0	0	0	1	1	1	3	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0.9	
Meudon/Paris	0	0		0		0	0.5			0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0.2	
Mount Wilson	0	0.5		0.5		0	0.5	0.5		0	0a	0.5				0	0.5	0.5	1	0.5	0.5	0	1	1	1	1	0.5	0	0	0	0	0	0.5	0.4	
Zürich (Spectroheliosc.)	0		1		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	0	0	0	0	0	0.3		
Mean	0	0.1	1	0.2	0	0.5	0.7	0.8	0.5	0	0.2	0	0	0	0.3	0.3	0.7	1	0.8	1	0.9	0.5	0.8	0.8	0.8	1	0.5	0.3	0.5	0.3	0.5	0.3	0.5		

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								0			0	0							0.5	0.5	0			0	0	0.5	0	0	0	0	0	0.1	
Evershed/Ewhurst																																			1
Kodaikanal	0	0	0	0	0	0	2	1	1	1	0		0	0	0	0	0	1	1	1	2		1	1	1	1	1	1	1	0	0	0	0	0.6	
Meudon/Paris	0									0				0						1	1	0		0	0	0.5	0.5							0.3	
Mount Wilson	0	0		0	0	0	1.5		1	0	0						0	0.5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	
Zürich (Spectroheliosc.)					0				0.5								0													0	1			0.3	
Mean	0	0	0	0	0	0	1.8	1	0.8	0.2	0		0	0	0	0	0	0.8	1.5	0.9	1.1	0	0.5	0.2	0.4	0.5	0.8	0.3	0	0	0	0	0.4		

February

Arcetri/Firenze	0	0.5				0	0					0										0	0	0	0	0								0.0	
Evershed/Ewhurst				0		0	0											0		0															
Kodaikanal	1	1	0	0	0	0	0	0	0	0	0	0	2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	
Meudon/Paris			0	0		0	0				0	0.5	1	1.5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	
Mount Wilson			0								0	0						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Zürich (Spectroheliosc.)	0.5	0	0	0	0	0							2	2.5	2.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4		
Mean	0.5	0.7	0	0	0	0	0	0	0	0	0	0.1	1.7	2.3	2.8	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3		

March

Arcetri/Firenze								0																									0	0
Evershed/Ewhurst	0	0																0	0															
Kodaikanal	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0.1
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
Mount Wilson	0	0		1		0	0				0a	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
Zürich (Spectroheliosc.)	0		0.5		0								0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0.1	
Mean	0	0	0.2	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2	0.2	0	0	0	0	0	0	0	0	0.1	

a = low weight

b = variable dark H α flocculus with large Doppler effect near the spot in the central zone.

Character Figures for dark H α -Flocculi.

The character figures are assigned on a 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	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																		0.5		0				
Evershed/Ewhurst													1																				
Kodaikanal	1	1	1	1	0.5	0.5	0	0.5	0.5	0.5	0.5	0.5	1	1.5	1.5	2	1.5	1.5	1		1.5	1	1	1	1.5	1	1	1	2	0			
Meudon/Paris	0			0			0.5	0	0.5	0		1	0.5								0.5	0.5	0.5	0.5			0.5						
Mount Wilson	0.5	1	0.5	0.5	0	0		0	0	0	0.5	1	1	0.5	0.5	1	1	0.5	0.5			1	1	1				1	0	0			
Zürich (Spectrohelioc.)		1	0.5	0.5							0	0		1	0.5		0.5	0			0	0.5			1.5	1.5	1.5	1	1	0.5			
Mean	0.5	1	0.7	0.5	0.2	0.2	0.2	0.2	0.2	0.1	0.5	0.6	0.8	1	0.8	1.5	1	0.7	0.8		0.8	0.8	0.8	0.8	1.2	1	1	0.8	1	0.1			

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	0.5		0.5				0.5	0.5											
Evershed/Ewhurst	0					0		0																		1	1		0.5			
Kodaikanal	0.5	0.5	0	0	1	0.5	0.5	0	0.5	0	0	0	0		0.5	0.5	0.5						0.5					1	1	0.5	0.5	
Meudon/Paris						0	0	0	0	0			0.5	0	0	0	0	0	0	0			0	1				0.5	0	0	0	
Mount Wilson	0	0				0	0	0	0	0	0	0	0	1	0.5	1	0	0	0	0			0.5	0	0.5	1	0.5	1	0	0	0	
Zürich (Spectrohelioc.)			0.5			0.5	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	1	1	1	1	0.5	0.5	0.5	
Mean	0.2	0.2	0.2	0	1	0.2	0.1	0	0.2	0.1	0	0.2	0.4	0.5	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.8	1	0.8	1	0.5	0.5	0.2	

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	0																					
Evershed/Ewhurst													1																			
Kodaikanal	0.5	0	0.5		0.5	0.5	0.5	1	1	0	0.5	0.5	0	1	1	1	0.5	0.5		1	2	0.5	0.5		0.5	0.5	0.5	1	0	0		
Meudon/Paris	0	0.5	0	0.5			1	0.5	0	0	0	0	0.5	0.5	0	0	0	0.5	0.5	0.5		1	0.5		0	0.5	0.5	0	0	0		
Mount Wilson	0	1	0			1	1	1	0	0	0	0	0.5	0	0	0	0	0	1	1	1	0.5	1	1		0	1	1	0	0	0.5	
Zürich (Spectrohelioc.)		0.5	0.5		0.5	1	1	1	0.5	0.5	0.5	0	0.5	1	0		0.5	0.5	1.5	1												
Mean	0.2	0.5	0.3	0.2	0.5	0.8	0.8	0.9	0.2	0.1	0.2	0.1	0.5	0.6	0.2	0.3	0.2	0.6	1	0.9	1.2	0.9	0.5		0.2	0.8	0.7	0.5	0.1	0.2		

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																											0.5		0			
Evershed/Ewhurst													0										0									
Kodaikanal	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	0	0	0	0	0	0	
Meudon/Paris	0.5																															
Mount Wilson	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0												
Zürich (Spectrohelioc.)		0	0	0										0.5	0											0.5	0.5	0	0.5	0.5	0	
Mean	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0	0.1	0.2	0	

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							0.5	0											
Evershed/Ewhurst	0																									1	1		0.5				
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	0	0	0	0		
Meudon/Paris																																	
Mount Wilson	0	0												0.5	0	0	0	0	0	0	0	0	0.5	0	1	2	0	1	0	0	0		
Zürich (Spectrohelioc.)			0			0.5	0						0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1.5	0.5	0.5	0.5	0			
Mean	0	0	0	0	0	0.1	0	0	0	0	0	0	0.2	0.3	0.2	0	0	0.1	0.2	0.1	0.2	0.2	0.5	0.1	0.8	1.5	0.5	0.8	0.6	0	0		

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	0.5																			
Evershed/Ewhurst																																	
Kodaikanal	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0															
Meudon/Paris	0	0	0																														
Mount Wilson	0	0												0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Zürich (Spectrohelioc.)		0	0		0								0.5	0.5	0		0.5	0.5	0														
Mean	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2	0.1	0	0.2	0.2	0.1	0	0	0.2	1	0.6		0	0	0	0	0	0		

Character Figures for dark H α -Flocculi.

The character figures are assigned on a 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	0			0.5	1	0.5																				0					0.5		0.4		
Evershed/Ewhurst																																			0.4
Kodaikanal	0.5	0.5				0.5	1					0.5			1.5	2		0.5	0	0.5														0.5	
Meudon/Paris	0	0	0.5	1	0.5	0.5		2	1.5	1		0.5		1		2		0	0	0						0	0	0.5	0.5		0	0	0.4		
Mount Wilson	0	0	0.5	1	1	1	2	2	2	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0	1	0.6		
Zürich (Spectrohelioc.)	0.5		0.5	0.5	1.5	1	1				1	1	1	1	1	1	0	0	0							0	0	0	0.5a	0.5a	0.5a	0.5	0.5		
Mean	0.2	0.2	0.5	0.8	1	0.7	1.3	2	1.8	1	1	0.8	1	1	1.2	1.3	0	0.2	0	0.2	1	0	0	0	0	0	0	0	0.2	0.4	0.2	0.4	0.6		

August

Arcetri/Firenze	0	0.5					0.5		0.5	0.5	1	0.5																						0.4
Evershed/Ewhurst						0.5		0	0.5	0.5	0.5	0.5	1	0.5	0	0	1	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	0.5	
Kodaikanal					0.5	1		0	0.5	1	1	1	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1	0	0.3
Meudon/Paris	0.5			0.5	1		0	0.5	1	1	1	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
Mount Wilson	1	0	1	0	1	1	0.5	0	1	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0.4
Zürich (Spectrohelioc.)	0			0.5	1		0.5	0.5	0	0	0.5	0	0	0.5	0	0	0	0	0	0	0.5	0	0.5	0	1b	0.5	0.5	0.5	0.5	1	1	1	1	0.4
Mean	0.5	0.2	1	0.2	0.8	0.8	0.4	0.2	0.6	0.5	0.6	0.4	0.2	0.4	0	0	0.2	0.1	0.1	0.2	0.2	0.1	0.3	0.1	0.6	0.3	0.4	0.2	0.8	1	0.6	0.4		

September

Arcetri/Firenze							0								0																				
Evershed/Ewhurst																																			
Kodaikanal			1		1		0.5	0.5	0.5	0.5	0	0	0	0	0	1.5	0.5	0.5	0.5	0.5	0.5	1.5	0.5	1	1				0.5	0.5	0.5		0.6		
Meudon/Paris	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	0	0	0	0	0	0	0	0	0	0	0	0.1	
Mount Wilson	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0.5	0	0	0	0	0	0	0	0.3	
Zürich (Spectrohelioc.)	0.5	0.5	0.5		0.5	0.5	0	0	0	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	0.2	
Mean	0.7	0.7	0.8	0.8	0.7	0.2	0.2	0.1	0.2	0.1	0	0.1	0	0	0	0.6	0.1	0.2	0.2	0.2	0.1	1.2	0.2	0.8	0.3	0.2	0	0.5	0.3	0.2		0.3			

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	0			0.5	0.5	0.5																				0						0		0.2	
Evershed/Ewhurst																																			
Kodaikanal	0.5	0				0.5	1.5					1			0	0					0.5												0	0.2	
Meudon/Paris	0	0	0	0	0.5	0.5		0.5	0	0		0.5		1.5			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	
Mount Wilson	0	0	0	1	0	1	1	0.5	0	0	1	1	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	
Zürich (Spectrohelioc.)	0.5		0	0.5	1	1	1				1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.3		
Mean	0.2	0	0	0.5	0.5	0.7	1.2	0.5	0	0	1	0.9	1.5	1.8	0	0	0	0	0	0	0.2	1	0	0	0	0	0	0	0.1	0	0	0	0.3		

August

Arcetri/Firenze	0	0.5					0.5		0	0	0.5	0																						0.2	
Evershed/Ewhurst																																			
Kodaikanal					0.5			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5						1	0.5	0.1		
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	0.1	
Mount Wilson	0	0	0	0	0	0.5	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	1.5	1	0	0.1
Zürich (Spectrohelioc.)	0	0	0	0	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1	1	1	0.5	0.2	
Mean	0	0.2	0	0	0.1	0.3	0.2	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0.1	0	0	0.3	1	1	0.2	0.1		

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Arcetri/Firenze							0																												
Evershed/Ewhurst																																			
Kodaikanal			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0.5			0	0	0.5	0.1		
Meudon/Paris	0	0	0	0.5	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	0.0	
Mount Wilson	0	0	0	1	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	0	0	0	0	0.1	
Zürich (Spectrohelioc.)	0	0	0		0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0.1	
Mean	0	0	0	0.8	0.8	0.2	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0.2	0.2	0	0	0	0	0.2	0.1		

a Small variable dark eruptive flocculi near the spot 1 275° b -8°
 b = 15h 00m C. T. G. Formation of a variable dark hydrogen flocculus with large Doppler-Effect near the new spot-group 1 331° b -6°

