

QUARTERLY BULLETIN ON SOLAR ACTIVITY

Published by the Eidgen. Sternwarte in Zürich

CHARACTER FIGURES OF SOLAR PHENOMENA

Co-operating Observatories: Abastuman, Arcetri-Firenze, Belgrade, Cambridge (England), Catania, Coimbra, Ewhurst (Mr. Evershed), Greenwich and Cape-Town, Kodaikanal, Lyons, Madrid, Meudon-Paris, Mount Wilson, Roma-Monte Mario, Simeis, South Hadley, Stonyhurst, Tashkent, Tokyo, Zurich.

Calcium-Flocculi.

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity of the flocculi; 0 representing absence or rarity, 5 extreme abundance and intensity.

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	K3	3	3.5													3			2.5	2.5				2											2.8	
Cambridge/Kodaikl.	K2-3																																			3.4
Coimbra	K3		4		4	4	4	4	3.5	3.5	3.5	3	3	3	3				3.5						3					2.5		2.5			3.4	
Meudon	K3	3		3												3				3	3	3	3	2.5			2							2.9		
Mount Wilson	K2-3		3			3	3	3	3	3	3	3	3	2	2		3	3	3	3	3	3	3	3	3				2	2	2	3		2.8		
Tokyo	K2-3		3		3	3	3	3	3	3	3	2.5			2.5	2.5	2.5	2.5	2.5	3	3		2.5		2.5	2.5	2.5	2	2	2	2			2.6		
Mean		3.0	3.4	3.0	3.5	3.2	3.3	3.2	3.1	3.2	3.2	3.2	2.8	2.5	2.5	2.8	2.8	2.8	2.9	2.9	3.0	3.0	2.7	2.0	2.8	2.5	2.2	2.0	2.2	2.0	2.5			2.8		

May

Arcetri/Firenze	K3										2	2			2.5								2	1.5			1.5		2.5					2.0		
Cambridge/Kodaikl.	K2-3																																			
Coimbra	K3				2	2	2	2.5	2.5						2.5	2.5	3	3		2.5	2.5	2.5	2.5	2.5		2	2.5		2.5	3	3			2.5		
Meudon	K3		1.5			1.5	1.5	2	2		2	2	2	2.5	3	2	3	3	2.5	2.5		2	2.5	2	2.5	2.5		2.5	2.5		2.5	2.5	2.5	2.5	2.3	
Mount Wilson	K2-3	2	2	3	3	3	2	2	2	3	2	2	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2.7	
Tokyo	K2-3	2	2	2	2		2	2	2	2	2	2	2		2.5	2.5	3		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2	2		2	2	2.5	2.5	2.5	2	2.2	
Mean		2.0	1.8	2.5	2.3	2.2	2.1	2.1	2.1	2.5	2.0	2.0	2.3	2.3	2.8	2.8	3.0	3.0	2.7	2.6	2.8	2.4	2.4	2.4	2.2	2.0	2.0	2.4	2.5	2.6	2.8	2.6		2.4		

June

Arcetri/Firenze	K3			2	1.5	2	2	2	2.5														2												2.1	
Cambridge/Kodaikl.	K2-3																																			
Coimbra	K3	3	3	3	3.5								3.5	3.5	3.5	3.5	3.5	3.5	3.5	3	3	3	2.5	2.5		2.5		3		3.5	3.5	3.5	3.5	3.2		
Meudon	K3			2	3	2.5	2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3	3	3	3	3	3	3	2.8	
Mount Wilson	K2-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3	3	3	3	3	3	3	2.9	
Tokyo	K2-3	2	2	2	2.5	2.5	2.5	2.5	3	3	3	3	3	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Mean		2.7	2.7	2.4	2.7	2.5	2.5	2.6	2.9	3.0	3.1	3.2	3.0	3.3	3.0	3.0	3.0	3.0	2.5	2.3	2.2	2.1	2.2	2.7	2.8	2.8	2.7	3.0	3.2	3.2	3.2	3.2		2.8		

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Calcium-Flocculi.

The character figures are assigned on the scale of 0, 1, 2, 3, 4, 5. The numbers refer to the area and intensity of the flocculi; 0 representing absence or rarity, 5 extreme abundance and intensity.

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	K3		2.5	3	3.5		2.5			2		3.5							2	2	2		1.5				2			1.5	2	2	2.3
Cambridge/Kodaikl.	K2-3																																
Coimbra	K3	3	3		3.5	3.5			3			3.5	3.5	3.5	3	3		2.5	2.5	2.5	2.5	3	3	2.5	2.5	2.5	2.5	2.5	2.5	2	2	2	2.8
Meudon	K3																																
Mount Wilson	K2-3	3	3	4	4	4	3	3	3	3	4	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3.2
Tokyo	K2-3	3	3	3	3	3	3	3				3.5	3.5	3	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7
	Mean	3.0	2.9	3.3	3.5	3.5	2.8	3.0	3.0	2.8	3.0	3.3	3.6	3.2	3.0	2.8	2.8	2.7	2.5	2.5	2.5	3.0	2.5	2.7	2.7	2.7	2.5	2.7	2.3	1.8	2.4	2.4	2.8

August

Arcetri/Firenze	K3	1.5			2.5			3.5	3			3.5		4	3.5	3.5	3					3.5	2.5				2	2	2			2.6	
Cambridge/Kodaikl.	K2-3																																
Coimbra	K3	2.5	2.5	2.5		3	3	3		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4.5	4.5	4.5	4.5	4.5	4	4	4	4	4	4	3.6
Meudon	K3		2.5	2.5	2.5	3.5	3		3	3	3	3.5	3.5	3.5		3.5	3	3		4		4.5			4	4	4		3.5	3.5	4	4	3.4
Mount Wilson	K2-3	4	3	3	4	4	3	4	3	4	3	3	4	4	4	4	3	3	3	3	4	4	4	4	4	3	4	4	4	4	3	3	3.5
Tokyo	K2-3	2.5	2.5	2.5		2.5	2.5	2.5					3.5			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2.9
	Mean	2.6	2.6	2.6	3.2	3.1	2.9	3.2	3.2	3.4	3.2	3.3	3.6	3.7	3.7	3.5	3.4	3.2	3.2	3.1	3.8	3.8	4.0	3.8	3.5	4.0	3.8	3.5	3.1	3.5	3.5	3.4	

September

Arcetri/Firenze	K3		2	2	2.5	3	2.5						1.5	1			1.5		1.5	2			2	2.5	2.5	2	1.5					2.0	
Cambridge/Kodaikl.	K2-3																																
Coimbra	K3	4	4	4	4		4	3.5			3	3	3	2.5	2.5	2.5	2.5	3		3	3.5	3.5	3.5	3.5		3	3	3		3	3	3.2	
Meudon	K3	4.5	4	4	4	4	4	3.5	3		2.5	2	2					2.5							2.5	2.5	2.5			2.5			3.1
Mount Wilson	K2-3	4	4	4	4	4	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	3	3	3	3.3
Tokyo	K2-3	3	3	3	3	3	3		2.5				2	2	2	2	2.5	2.5				3	3	3	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
	Mean	3.9	3.4	3.4	3.5	3.5	3.3	3.3	2.8	3.0	2.8	2.8	2.8	1.9	2.5	2.7	2.7	2.5	2.8	2.5	2.9	3.2	3.1	3.2	3.0	2.9	2.7	3.0	2.7	3.0	2.8	2.9	

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Calcium-Flocculi.

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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	K3			3		2.5				3.5					3.5			2.5		3		2.5													2.9	
Cambridge/Kodaikl.	K2-3																																			
Coimbra	K3	3.5	3.5	3.5	3.5	3.5	3.5				4	4			4	4	4				3.5	3.5			3		2.5								3.5	
Meudon	K3				2					3		3.5	3.5	3	3	3	3				2.5						2								2.6	
Mount Wilson	K2-3	2	3	3	2	3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2.8	
Tokyo	K2-3		2		2	2	2	2	2.5	3	3	3	3	3			3	3	3	2.5			2			2	2								2.4	
Mean		2.8	2.8	3.2	2.4	2.8	2.8	2.8	2.8	3.0	3.4	3.4	3.0	3.0	3.3	3.4	3.3	3.0	2.8	2.8	3.0	2.8	2.5	3.0	3.0	2.0	2.2	2.0	2.1	2.3	2.0	2.0	2.0	2.8		

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	K3									3.5																										3.1
Cambridge/Kodaikl.	K2-3																																			
Coimbra	K3		2	2.5	2.5	3	3	3	3			3.5			3.5				3.5	3			2.5		3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1	
Meudon	K3	2				2.5		3	3			3		3	3		3							2	2								2.5	2	2	2.5
Mount Wilson	K2-3	2	2		3	3	3	3	4		3	4	3	4		3			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3.0	
Tokyo	K2-3	2	2	2	2.5	2.5			3		3	3	3	3	2.5	2.5	2.5	2.5		2.5			2	2	2		2	2	2	2	2	2.5	2	2	2.4	
Mean		2.0	2.0	2.2	2.7	2.8	2.8	3.0	3.2	3.2	3.0	3.5	3.0	3.5	3.0	2.8	2.5	2.8	3.2	2.8	3.0	2.0	2.6	2.3	2.7	2.8	3.0	3.1	3.0	2.6	2.8	2.8	2.8	2.8		

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	K3		2.5	3.5		3				4			4	3.5	3			2		2	1.5											1	1.5			2.6
Cambridge/Kodaikl.	K2-3																																			
Coimbra	K3	3	3	3	3			3	3.5	3.5		4	4	4	4	4	3.5	3.5						2.5	2.5	2.5	2.5	2.5	2.5	2	2.5	2.5	2	2.5	2.5	3.1
Meudon	K3	2	2	2		2.5	2		3			4			3.5																					2.3
Mount Wilson	K2-3	2	3	3	3	3	3	4	3			4																						2	2	2.8
Tokyo	K2-3	2	2	2	2	2	2.5		2.5	3	3.5	3.5	3.5	3.5	3	3	3					2												2	2	2.4
Mean		2.2	2.5	2.7	2.7	2.6	2.8	3.5	3.0	3.5	3.5	3.9	3.8	3.7	3.4	3.5	3.2	2.8	2.7	2.3	2.0	2.0	1.5	2.2	2.2	2.2	2.2	2.1	1.8	1.7	2.0	2.2	2.0	2.6		