

BULLETIN FOR CHARACTER FIGURES OF SOLAR PHENOMENA

Published by the Eidgen. Sternwarte in Zürich

Co-operating Observatories: Arcetri-Firenze, Cambridge (England), Catania, Coimbra, del Ebro, Ewhurst (Mr. Evershed), Greenwich and Cape-Town, Kodaikanal, Kyoto-Kwasan, Lyons, Madrid, Kiew, Meudon-Paris, Mount Wilson, Roma/Campid., South Hadley, Stonyhurst, Tashkent, Tokyo, Zürich.

Character Figures for 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. As central zone a circular surface of a semidiameter of the sun's disc has been taken.

Whole Sun Disc

Table for January Whole Sun Disc. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

February

Table for February Whole Sun Disc. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

March

Table for March Whole Sun Disc. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

Central Zone

Table for January Central Zone. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

February

Table for February Central Zone. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

March

Table for March Central Zone. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo, Mean.

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Whole Sun Disc

Table for Whole Sun Disc in April. Columns: Observatory, April (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

May

Table for Whole Sun Disc in May. Columns: Observatory, May (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

June

Table for Whole Sun Disc in June. Columns: Observatory, June (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

Central Zone

Table for Central Zone in April. Columns: Observatory, April (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

May

Table for Central Zone in May. Columns: Observatory, May (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

June

Table for Central Zone in June. Columns: Observatory, June (1-31), Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

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Whole Sun Disc

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	3	2.5	2		2	2					4.5	4	3.5	3.5						3.5		2.5	2.5	3				2					2.9
Cambridge/Kodaikl.	K2-3	3		3	3.5	3	3	3	3.5	4		4.5	4.5	5	4.5							3.5	3.5	3.5	3.5	3	3	3	3	3.5	3.5	4	3.6	
Coimbra	K3	2.5	2	2	2	2	2	2.5	3	3.5	4	4	4.5	4	4	4.5						3.5	3.5	3.5	3.5	3.5	3	3	3	3	3	3	3.1	
del Ebro	K2	2	1.5	1.5		2	2	2.5	3.5	3.5	4	4.5	5	5	4.5	4	3.5	3.5	4	4	3	2.5	2.5	3	3	2.5	2.5	3	3				3.2	
Kwasan	K2	3	3	3	2.5			2.5	3	3.5	4			4.5	4	4.5	4.5	4.5	4.5	4	4	3.5	3.5	3.5	4		4						3.7	
Meudon	K3	3	3.5	3		3		4.5	4.5	4.5			5	5	5	5	5	5	5	4.5	4	4	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4.1	
Mount Wilson	K2-3	3	3	3		3	3	3	3	4		4	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	4.3	
Tokyo	K2-3	2.5			2	2	2	2.5	3.5		4.5		5	5	5	5	5	5	4.5	4.5	4.5	4.5		3.5	3.5	3.5		3.5	3.5				3.6	
Mean		2.8	2.6	2.5	2.5	2.3	2.3	2.9	3.5	3.7	4.0	4.6	4.7	4.6	4.6	4.5	4.4	4.4	4.3	4.2	3.8	3.6	3.5	3.6	3.6	3.8	3.0	3.3	3.0	3.2	3.5	4.0	3.6	

August

Arcetri/Firenze	K3			3	3.5	3	3.5					3.5	3.5	3.5				2.5	2.5	3.5	2.5			3	3	3.5	3	3					3.1	
Cambridge/Kodaikl.	K2-3	4	4	4	4	4.5	4	4	4	4.5	4	4	4.5	4	4	4	4	3.5	3.5	3	3	3	3	3	3.5	3.5	3.5	3	3	3.5	3.5	3	3	3.8
Coimbra	K3	3.5	4	4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4	4	4	4	3.5	3	3	3	3	3	3	3.5	3.5	3.5	3	3	3.5	3.5	3.5	3.5	3.5	3.7	
del Ebro	K2	3.5	3.5	3.5		3.5	3.5	3.5	4	4.5	4.5	4	4	4	3.5	3	3	2.5	2	2			3	3	3	3	2.5	3	3	3	3.5	3.5	3.3	
Kwasan	K2	4	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4	4	4	4	4	4	3.5	3.5		3.5	3.5	4	4	4	4	4	4	4	4	4.1	
Meudon	K3	4	4	4.5	4.5	4.5	4.5	4.5	4.5	5	5	5	5	5	4.5	4.5	4	3.5	4	4	4	3	3.5	3	3	3	4	4	4	4	4	4	4.1	
Mount Wilson	K2-3	4	5	5		5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5	4.7	
Tokyo	K2-3	3.5	4		4.5	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4	3.5	3		3	3	3.5	4	4.5	4.5	4.5	4.5					4.0	
Mean		3.8	4.1	4.1	4.2	4.1	4.2	4.3	4.5	4.6	4.6	4.2	4.3	4.2	4.1	4.1	3.8	3.4	3.1	3.5	3.2	3.3	3.5	3.5	3.8	3.8	3.5	3.8	3.8	3.9	3.3	3.7	3.9	

September

Arcetri/Firenze	K3		2.5	3			2.5	2.5	3				2.5																				2.7
Cambridge/Kodaikl.	K2-3	3	3	3	3.5	3.5	3.5	3.5	3.5	3	3	3	3	3	2.5	3	2.5	3	3	2.5	3	3	3	3.5	3.5	3	3	3.5	3.5	3	3.5	3.1	
Coimbra	K3	3.5	3.5	3.5	3.5	3.5	4	4	4	3.5		3.5	3	3		2.5							3	3	3	3	3	3	3	3	3.5	3.3	
del Ebro	K2	3.5	3.5																				3	3.5	3	3	2.5	3	2.5			3.0	
Kwasan	K2	4	4		4.5	4.5		4.5	4.5				3.5	3	3.5							3	3	3	4	4		4			3.9		
Meudon	K3	4	4	4	4	4	4	4	4	4	4	4	4	4	3.5	3	3	2	2	2.5	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	4	4	3.4	
Mount Wilson	K2-3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	4.3
Tokyo	K2-3	3	4	4		4	4						3.5	3.5	3.5								3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	3.7
Mean		3.7	3.5	3.8	4.1	4.1	3.8	3.9	4.0	3.2	3.7	3.5	3.4	3.2	3.4	3.0	3.0	2.8	3.0	3.2	3.1	3.2	3.2	3.4	3.6	3.4	3.6	3.4	3.1	3.8	3.8	4.0	3.5

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	K3	2.5	2	2		2.5	2.5						4.5	4.5	4.5	3						3.5		2.5	3				2			2.9	
Cambridge/Kodaikl.	K2-3	2.5	2.5	2.5	2.5	2	2.5	2.5	3	3			4	5	5	5							2.5	2.5	3	3.5	3.5	2		2	1	1	3.1
Coimbra	K3	2	2	2	1.5	1	2	2	2.5	2.5	2	2.5	3.5	4	5	5							2.5	3	3.5	3.5	2	2	1	1	1.5	1.5	2.3
del Ebro	K2	1	1.5	1.5		2.5	2.5	2.5	2.5	2	2.5	3	5	5	5	3.5	3	3	3	3	3	1	2	2.5	2		1.5	2	2.5	1.5			2.6
Kwasan	K2	2.5	2.5	2.5	2			2.5	2.5	3	3				4.5							2.5	2.5	2	2	3.5		2				2.8	
Meudon	K3	3	3.5	3		2		4	4	4	4	5	5	5	5	5	4.5	4.5	3	2	3	3	3	3.5	1.5	3	3.5	3	2	1.5	3	3.6	
Mount Wilson	K2-3	3	3	3		3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3.9
Tokyo	K2-3	2.5			2	1.5	2	2.5	2.5		3		5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3.3
Mean		2.2	2.4	2.4	2.0	1.9	2.4	2.7	3.0	2.9	2.9	3.6	4.5	4.8	4.8	4.4	3.7	3.6	3.8	3.9	3.8	2.8	2.6	3.0	2.9	3.3	1.5	2.2	2.7	2.4	2.0	1.6	3.0

August

Arcetri/Firenze	K3			3	3.5	3	2.5					3.5	3	3			2	2.5	2	2.5					2	3	3.5	3	2.5			2.8	
Cambridge/Kodaikl.	K2-3	2.5	4	4.5	4.5	4.5	4.5	4	1.5	3.5	3	3.5	3	4	3.5	4	4	2.5	3	3	3	2.5	1	3	3.5	4.5	4.5	4.5		1.5		3.4	
Coimbra	K3	2	3	3	3.5	3.5	3.5	3	3	3.5	3.5	3	3	3.5	3.5	2	1.5	1.5	1.5	1.5	1.5	1	1	2	3	3	3	2.5	2.5	1.5	1.5	2	2.5
del Ebro	K2	3.5	3	3.5		4	2	2.5	2.5	4	3.5	3	2	2.5	3.5	3	1	0.5					1.5	1.5	2	2	2	2	2	2	1	1.5	2.5
Kwasan	K2	3	3.5	3.5		3		3		3	3	3	3	3	3	3	3	2.5				3	2.5	1.5	2	3	4	4	3.5	3	2	1	2.9
Meudon	K3	3.5	4	4.5	4.5	4	4	3.5	3.5	4	4	4	4	4	4	3.5	4.5	3	2	3	3	1	2	3	4	4	4	4	3	2	1.5	3	3.3
Mount Wilson	K2-3	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3.8
Tokyo	K2-3	3	4		4.5	4.5	4					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3.4
Mean		3.1	3.6	3.7	4.1	3.9	3.4	3.4	3.1	3.8	3.6	3.6	3.4	3.3	3.6	3.8	3.1	2.1	2.4	2.8	2.4	1.7	1.5	2.6	3.7	4.1	3.6	3.2	2.8	2.0	1.6	2.6	3.1

September

Arcetri/Firenze	K3		2.5	3.5			2.5	2.5	3				2																			2.6
Cambridge/Kodaikl.	K2-3	2.5	2.5	3	3.5	4	3.5	3.5	4	4	4.5	4.5	4	3.5	3	2	1.5	2	3	3.5	3.5	3.5	3	2.5	2.5	2.5	2.5	2.5	3			3.1
Coimbra	K3	2.5	3	3	3	3	3.5	3.5	3.5	3.5			2	2																		



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November

Table for November Whole Sun Disc. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

December

Table for December Whole Sun Disc. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

Central Zone

Table for October Central Zone. Columns: Observatory, K3, K2-3, 1-31, Mean. Rows: Arcetri/Firenze, Cambridge/Kodaikl., Coimbra, del Ebro, Kwasan, Meudon, Mount Wilson, Tokyo.

November

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December

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