No. 17 International Astronomical Union January/March 1932

BULLETIN FOR CHARACTER FIGURES OF SOLAR PHENOMENA

Published by the

Eidgen. Sternwarte in Zürich

Co-operating Observatories: Arcetri-Firenze, Cambridge (England), Catania, del Ebro, Ewhurst (Mr. Evershed), Greenwich and Cape-Town, Kodaikanal, Kyoto-Kwasan, Lyons, Kiew, Meudon-Paris, Mount Wilson, Roma/Campid., South Hadley, Stonyhurst, 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 semi-diameter of the sun's disc has been taken.

Whole Sun Disc

January

Observatory		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	Mean
Arcetri/Firenze	K3		1.5								1			0.5	0.5						0.5	0.5	0.5			0.5	0.5	1	0.5	0.5	0.5	0.5	0.6
Cambridge/Kodaikl.	K2-3	2	2	2	2.5	2.5	2.5	2	2	1.5	2	2	2	1.5	1.5	1.5	2	2	2	2	2	2		2	2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.1
del Ebro	K2	1	0.7	1	1.5	1.5	0.7						0.5	0.2	0.2	0.2		0.5	0.5	0.5	0.2			0.7					1	1	1	1	1	0.7
Kwasan	K2	1		0.5	1	1	1	1		1	1	1	0.5	0.5	0.5	0	0.5		0.5		0.5	0			0.5	1		0.5	1	1	1	1	0.7
Meudon	K3	1									0.5				0						0	0	0.5		0.5	0.5	0.5						0.4
Mount Wilson	K2				1.5	1	1	1		1	1	0						1	0.5	0.5	0.5	0	0.5	1	1	1			1	1			0.8
Tokyo	K2-3			2	2		2					1	1	1	1	1		1	1	1		1	1		1	1		1	1	1	1.5	1.5	1.2
	Mean	1.2	1.4	1.4	1.7	1.5	1.4	1.3	2	1.2	1.1	1	1	0.7	0.6	0.7	1.2	1.1	0.9	1	0.6	0.6	0.6	1.2	1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.1

February

Arcetri/Firenze	K3	0.5	0.5				0.5	0					0.5										0	0.5	0.5	0.5							0.4
Cambridge/Kodaikl.	K2-3	2.5	2.5	2	2	1.5	1.5	1	1	1	1.5	1.5	1.5	1.5	2	2	1.5	1	1	0.5	1	1	1	2	2.5	2.5	2.5	3	3	3			1.7
del Ebro	K2	0.7	0.5	0.5	0.2	0.2			0	0.2	0.2					0.2	0.2				0.2	0.5	0.5	0.5	0.5	0.7	1.5	1.5	1.5				0.5
Kwasan	K2	1					0.5						0.5			0.5	0	0	0	0	0		0	0.5	0.5		0.5	1	1	1			0.4
Meudon	K3			0.5	0.5		0					0	0.5	0	0	0	0		0	0	0	0				1	1		1.5	1.5			0.4
Mount Wilson	K2				0							0	0							0	0	0	0	0.5	1	1	2	2	2				0.8
Tokyo	K2-3	1	1	1		1	1		0	0			1	1			0	0	0	0	0	0.5	0.5	1	2		2	2	2	2			0.9
	Mean	1.1	1.1	1	0.7	0.9	0.7	0.5	0.3	0.4	0.8	0.5	0.7	0.8	1	0.7	0.3	0.3	0.2	0.1	0.2	0.4	0.3	0.8	1.2	1.1	1.6	1.9	1.8	1.9			0.8

March

Arcetri/Firenze	K3							1							0															0.5	0.5	—
Cambridge/Kodaikl.	K2-3	3	3.5	3.5		3	3	3	3	3	2.5	1.5	1	1	1	1	1	1	1	2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3
del Ebro	K2		2				1.7	1.7	1.5	1.5									0.7	0.7	1	0.7	0.7	0.7		1	1	1.2	1.5	1.2			1.2
Kwasan	K2	2	2	2	1.5	2	1.5		1	1	1	0.5				0	0	0	0	0.5	0.5	1	1	1		0.5	1			1	1	1	1.0
Meudon	K3	2	2		1		1	1			0.5		0	0	0	0		0	0	0.5	1	1			0	0		0.5	0.5	0.5		0.5	0.6
Mount Wilson	K2	2	2		1	1	1.5	1.5		1		0	0			0	0	0	0	0	1		1	1	1	0.5	0.5	1	1	1	1	1	0.8
Tokyo	K2-3	2				3	3		2	2				0			0	0	0.5	1	2	2	2				1				1	1	1.4
	Mean	2.2	2.3	2.8	1.2	2.2	2	1.6	1.9	1.7	1.3	0.7	0.3	0.3	0.3	0.2	0.2	0.2	0.3	1	1.3	1.4	1.4	1.3	0.9	0.9	1.3	1.2	1.3	1.3	1.2	1.1	1.2

Central Zone

January

Observatory		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	Mean
Arcetri/Firenze	K3		0.5								0.5			0	0.5						0.5	0.5	0			0.5	0.5	0.5	0.5	0	0	0.5	0.4
Cambridge/Kodaikl.	K2-3	1.5	1	0.5	1	1	1.5	1.5	1.5	1.5	1	0.5	0.5	0.5	1	1	1*	0.5	0.5	1	1	1		0.5	0.5	1.5	2*	2*	1.5*	1	0.5	2*	1.1
del Ebro	K2	1.2	0.5	0.5	1	1	0.7						0.2	0.2	0.2	0.5		0	0.2	0.5	0.2			0.2					0.5	0.5	0.2	0.2	0.5	0.4
Kwasan	K2	2		0.5	1	0.5	1	0.5		1.5	1	0	0	0	0	0.5	0.5		0		0.5	0.5			0.5	1		0.5	0.5	0.5	0	0.5	0.6
Meudon	K3	1.5									0.5				0						0	0	0		0	1.5	1						0.5
Mount Wilson	K2				1	1	1	2		1	0.5	0						0	0.5	0.5	0.5	0	0	0	0.5	1			1	0			0.6
Tokyo	K2-3			1	1		0					0	0	1	1	1		0	0	1		0	0		0	1		1	1	1	0	1	0.6
	Mean	1.5	0.7	0.6	1	0.9	0.8	1.3	1.5	1.3	0.7	0.1	0.2	0.3	0.4	0.8	0.8	0.1	0.2	0.8	0.4	0.3	0	0.2	0.3	1.1	1.2	0.9	0.8	0.4	0.1	0.9	0.7

February

Arcetri/Firenze	K3	0.5	0.5				0	0					0.5										0	0.5	0.5	1							0.4
Cambridge/Kodaikl.	K2-3	2*	2*	1.5	0.5	0	0	0.5	0.5	0	1*	1*	1*	0.5	1	1	1	0.5	0.5	0	0.5	0.5	0.5	1*	1.5*	2*	2*	2*	2	1			0.9
del Ebro	K2	0.7	0.7	0	0	0			0	0.2	0.2					0.2	0.2				0.2	0.5	0.2	0.5	0.7	1	2	1.7	1.7				0.6
Kwasan	K2	1.5					0						0.5			0	0	0	0	0	0		0	0.5	0.5		1	1.5	1	0			0.4
Meudon	K3			0	0		0				0.5	1	0	0	0	0		0	0	0	0	0				1.5	2		2	0			0.4
Mount Wilson	K2				0						0.5	0.5							0	0	0	0	1	1	1.5	2	2	2	0				0.8
Tokyo	K2-3	1	1	0		0	0		0	0			1	0			0	0	0	0	0	0.5	0.5	1	2		2	2	2	1			0.6
	Mean	1	1	0.4	0.1	0	0	0.2	0.2	0.1	0.6	0.7	0.8	0.2	0.5	0.3	0.2	0.2	0.1	0	0.1	0.3	0.2	0.8	1	1.4	1.8	1.8	1.8	0.4			0.6

March

Arcetri/Firenze	K3							0.5							0																0.5	0.5	—
Cambridge/Kodaikl.	K2-3	1	1	2*		2.5*	2.5*	1.5	1.5	1	0.5	0.5	0.5	0.5	0	0	0	0	0	1*	1.5*	1.5*	2	2	1.5	1.5	1.5	0.5	1	1.5	2	2	1.2
del Ebro	K2		0.7				1	0.7	0.7	0.5										1	1	1	1	1	1		0.5	0.2	0.5	0.7	1.5		0.8
Kwasan	K2	0.5	0.5	1	2	2.5	2		0.5	0.5	0	0				0	0	0	0	0	0	0.5	1	0.5	1		1	1			0.5	0.5	1	0.7
Meudon	K3	0.5	0.5		2		1.5	0.5			0		0	0	0	0			0	0	0.5	0.5	0.5			0.5	0.5			0	0	0.5		1	0.4
Mount Wilson	K2	1	1		2	2	1	1		0		0.5	0.5			0	0	0	0	0	1		1	1	1	1	0.5	0	1	1	1.5	1	0.8
Tokyo	K2-3	0				2	2		1	1				0			0	0	0	0	0	1	2	2			1				1	1	0.9
	Mean	0.6	0.7	1.5	2	2.2	1.7	0.8	0.9	0.6	0.2	0.3	0.3	0.2	0	0	0	0	0	0.6	0.9	1.2	1.3	1.2	1	1	0.9	0.2	0.6	0.8	1.2	1.1	0.8

* Days of special activity

No. 18 International Astronomical Union April/June 1932

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Eidgen. Sternwarte in Zürich

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

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 semi-diameter of the sun's disc has been taken.

Whole Sun Disc

April

Observatory		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	Mean
Arcetri/Firenze	K3									0																							
Cambridge/Kodaikl.	K2-3	0.5	0.5	0.5	0.5	0.5	0.5	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		0.4
del Ebro	K2			0.5			0.2	0	0.2	0		0.2	0.2	0.5	0.7			0.5	0.5	0.5	0.5			0.7		0.7	1				1		0.5
Kwasan	K2	1	0.5	0.5	0.5	0.5	0	0		0				0	0.5		0	0.5	0.5	0.5	0.5	0.5	1			1			1.5			0.5
Meudon	K3	0			0.5			0	0	0	0		0	0				0					1	1	1	1		1			1		0.4
Mount Wilson	K2	1	1	1	0.5	0	0	0	0	0	0	0	0		0.5	0	0.5	0.5	0.5	0			1	1	1				1	1	0.5		0.5
Tokyo	K2-3	1	1	1		1	0			0.5		1		1	1		1	1		1	1	1	1			2				2			1.0
	Mean	0.7	0.8	0.7	0.5	0.5	0.1	0	0	0.1	0	0.4	0.2	0.4	0.6	0.2	0.5	0.5	0.5	0.5	0.6	0.7	0.9	0.8	0.8	1	0.8	0.8	0.8	1.2	0.8		0.5

March

Arcetri/Firenze	K3										1			1	1		1.5			1.5		1.5						0.5					1.1
Cambridge/Kodaikl.	K2-3	0.5	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1*	1*	1	1	1	1	1	1	1	1		1*	1	0.5	0.5	0.5	0.6
del Ebro	K2		0		0			0	0.7	1	0.7	0.7	1	1			1.7	2	2.5				2.2		2.2	1.7		1	1.2	1	1		1.1
Kwasan	K2		0	0	0						0.5	0.5				1	1.5	1.5	1					2	2		2	1.5		1.5	1		1.1
Meudon	K3					0	0	0	0.5	0.5	0.5			0.5				2	2	2	1.5	1.5		1.5	1.5				1	1	1	1	1.0
Mount Wilson	K2	0					0		0	0.5	0.5	1	1	1	1	1	2	2		2	2		2	2	2	1	2	1	1		1	0.5	1.2
Tokyo	K2-3	1	0	0	0	0		0			1.5	2		2		2		2	3						3			3		2	2		1.4
	Mean	0.5	0	0	0	0	0	0	0.4	0.6	0.7	1	0.8	1	0.8	1.2	1.5	1.8	1.9	1.6	1.5	1.3	1.7	1.6	2	1.2	2	1.5	0.9	1.2	1.1	0.7	1.0

June

Arcetri/Firenze	K3				0.5					1	1.5									1								1	1				1.0
Cambridge/Kodaikl.	K2-3	0.5	0	0.5	0.5	0.5	1	1*	1*	1*	1*	1*	1	1	1	0.5	0.5	0.5	0.5		1	1*	1*	1	1	1	1	1	1	1*	0.5*		0.8
del Ebro	K2	0.5	0	0.5	0.7	0.7	0.7	0.7	1.2	1.2						0.7	1	1.2	1.5			1.7	1.7	1.7		1.7	2	1.7					1.1
Kwasan	K2		0		0				2		2.5	2	1.5							1.5							2			1.5	1.5		1.5
Meudon	K3	0	0	0.5	0.5			1	1.5	1.5	1.5	1.5	1.5	1.5	1	0.5	0.5	1	1	1.5	1.5		1.5	1.5	1	2	2	2	2	1	1		1.2
Mount Wilson	K2	0	0		0		1	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1		1.1
Tokyo	K2-3		0								2	2								2	2								2		2		1.7
	Mean	0.2	0	0.5	0.4	0.6	0.9	0.9	1.3	1.2	1.8	1.7	1.5	1.2	1	0.7	0.8	0.9	1	1.4	1.6	1.6	1.3	1.3	1	1.4	1.6	1.3	1.4	1.1	1.2		1.1

Central Zone

April

Observatory		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	Mean
Arcetri/Firenze	K3									0																							
Cambridge/Kodaikl.	K2-3	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0	0	0		0.2
del Ebro	K2			0.2			0	0	0	0		0	0	0.5	0.5			0.5	0.2	0.2	0.2			0.7		1	1.5				0		0.3
Kwasan	K2	1	0.5	0	0	0	0	0		0				0	0.5		0	0.5	0	0	0	0	0.5			1			0				0.2
Meudon	K3	0.5			0			0	0	0	0		0	0				0.5					0	0.5	1.5	1.5		1			0		0.4
Mount Wilson	K2	1	0.5	0	0	0	0	0	0	0.5	0	0	0		0.5	0.5	1	0.5	0	0			0	1	1					0	0	0		0.3
Tokyo	K2-3	1	0.5	0		0	0			1		1		1	1		1	1		0	0.5	0	0			2				0			0.6
	Mean	0.8	0.5	0	0	0	0	0	0	0.2	0	0.2	0	0.3	0.6	0.5	0.6	0.6	0	0	0.2	0	0.1	0.6	1	1.2	1	0.8	0	0	0		0.3

May

Arcetri/Firenze	K3											1		1	1		1			1		1							1				1.0
Cambridge/Kodaikl.	K2-3	0	0	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	0.5	0.5	0.5		0.5	0.5	0	0	0	0.3
del Ebro	K2		0		0			0	0	0.2	0	0	1.2	1.2			0.7	1.2	1.5				1.5		1.5	1.5		1.5	1.5	0.2	0		0.7
Kwasan	K2		0	0	0						0	0				1.5	1	1	1					2	1		2	1.5		0.5	0		0.8
Meudon	K3					0	0	0	0	0	0			1				1.5	1.5	1.5	1.5	1.5		1.5	1.5				1.5	0	0	0	0.7
Mount Wilson	K2	0					0		0	0	0	1	1	1	2	2	1	2		1	2		2	2	1	2	2	2	1		0	0	1.1
Tokyo	K2-3	0	0	0	0	0	0	0			0	0		2		2		1	2						2			3		0	0		0.7
	Mean	0	0	0	0	0	0	0	0	0	0	0.3	0.9	1.1	1.2	1.5	0.8	1.2	1.3	1	1.3	1	1.3	1.5	1.2	1.3	2	1.7	1.1	0.1	0	0	0.7

June

Arcetri/Firenze	K3				0					1	1.5									0.5								0	0				0.5
Cambridge/Kodaikl.	K2-3	0	0	0	0	0	0	0.5	0.5	1	1	1	0.5	0.5	0	0	0	0	0		0	0.5	0.5	0.5	0.5	0.5	0	0	0	0.5	0.5		0.3
del Ebro	K2	0	0	0	0	0	0.2	1	1	1.5						0.2	0.2	0.7	0.5			1.7	2	2.2		0.2	0	0					0.6
Kwasan	K2		0						2		2.5	3	0.5							1							0			1	2		1.3
Meudon	K3	0	0	0	0			1.5	1.5	2	3	1	1	1	0	0	0.5	0.5	0.5	0.5	1.5		2.5	2.5	1.5	0.5	0	0	0	1.5	1.5		0.9
Mount Wilson	K2	0	0		0		1	1	2	2	2	1	2	1	0	0	1	1	1	1	1	2	2	2	2	0	0	0	1	2	2		1.1
Tokyo	K2-3		0								3	2								1	0								0		2		1.1
	Mean	0	0	0	0	0	0.4	1	1.4	1.5	2.2	1.6	1	0.8	0	0	0.4	0.6	0.5	0.8	0.6	1.4	1.8	1.8	1.3	0.3	0	0	0.2	1.2	1.6		0.7

* Days of special activity

No. 19 International Astronomical Union July/September 1932

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Co-operating Observatories: Arcetri-Firenze, Cambridge (England), Catania, del Ebro, Ewhurst (Mr. Eversched), Greenwich and Cape-Town, Kodaikanal, Kyoto-Kwasan, Lyons, Kiew, Meudon-Paris, Mount Wilson, Roma/Campid., South Hadley, Stonyhurst, 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 semi-diameter of the sun's disc has been taken.

Whole Sun Disc

July

Observatory		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	Mean
Arcetri/Firenze	K3	1.5			1	1	1																			0.5					0.5		0.9
Cambridge/Kodaikl.	K2-3	0.5	0.5		0.5	1	0.5	0.5		0.5		0.5	0.5		0	0.5	0.5	0.5	0	0	0	0	0	0			0	0	0.5	0.5		0.5	0.3
del Ebro	K2			1.7	1.7		1.7		1.5	1.2		0.7	0.7	1	1.2	1	1.2		0.7		1			0.7						1.2		1.1
Kwasan	K2				2	2						1	0.5	1	0	0			1	1.5	1	1	1	1		0.5		0	0.5	1	1		0.9
Meudon	K3	2	2	2	2	2	2		1	1	1	0.5	0		0			0		0.5	0.5			0	0		0	0	0.5	0.5	0.5	0.5	0.8
Mount Wilson	K2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1	1	1	0.5	0.5	0.5	0	0.5	0.5	0.5	0.5	1	1	1	0.8
Tokyo	K2-3				1.5					0.5			0.5	0	0.5								1	1	1	1	0.5	0	0.5	1	0.5	0.5	0.7
	Mean	1.5	1.5	1.9	1.5	1.4	1.2	0.8	1.2	0.8	1	0.5	0.4	0.5	0.3	0.4	0.6	0.3	0.7	0.8	0.6	0.6	0.6	0.5	0.4	0.6	0.2	0.1	0.5	0.8	0.8	0.6	0.8

August

Arcetri/Firenze	K3	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
Cambridge/Kodaikl.	K2-3	0.5	0.5	0.5		0.5		0.5	0	0	0	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	0.2
del Ebro	K2			0.7	0.7	0.7	0.7	0.5	0.2	0.2	0.5							0	0	0				0.5	0.7	1.2			1.7	1.2	1.2		0.6
Kwasan	K2	1	1	0.5	0.5			0.5	0	0		0		0	0	0	0	0	0	0	0			0	0.5	0.5		1	1	1	1		0.4
Meudon	K3	0.5			0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	1		1	0.5	0.5	0	0.2
Mount Wilson	K2	1	1	1	1	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	1	0	0.3
Tokyo	K2-3		0.5		0.5		0	0			0					0					0					0.5					0.5		0.2
	Mean	0.7	0.7	0.7	0.6	0.3	0.2	0.3	0	0.1	0.2	0.1	0.1	0	0	0	0	0	0	0	0.1	0	0.1	0.2	0.4	0.7	0.8	0.8	1.2	0.8	0.8	0	0.3

September

Arcetri/Firenze	K3							0								0																	
Cambridge/Kodaikl.	K2-3	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
del Ebro	K2			0.2	0.2	0	0		0			0			0.2	0.2	0.2		0.2	0.2		0.5	0.5		0.2	0.5		0.5	0.2	0.2	0.2		0.2
Kwasan	K2	0.5	0.5	0	0			0		0	0						0		0	0	0	0.5			0					0.5			0.1
Meudon	K3	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	K2	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
Tokyo	K2-3		0	0	0															0	0									0			0.0
	Mean	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0	0.1	0	0.2	0.1	0.1	0.1		0.0

Central Zone

July

Observatory		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	Mean
Arcetri/Firenze	K3	1			0.5	1	1																			0.5					0.5		0.8
Cambridge/Kodaikl.	K2-3	0.5*	0.5		0	1	0.5	0.5		0		0	0		0	0	0	0	0.5	0.5	0.5	0	0	0			0	0	0	0		0	0.2
del Ebro	K2			0.5	0.7		2		1.2	0.5		0.2	0.2	0.2	0.2	0.5	0.7		0.7			0.2			0.5					0.5		0.6
Kwasan	K2				1	1						0	0	0.5	0	0			1	1.5	1	1	0.5	0.5		0		0	0.5	0.5	0.5		0.5
Meudon	K3	2.5	2.5	1	1	2	2		1.5	0	0	0	0		0			0.5		1	1			0	0		0	0	0	0	0	0	0.6
Mount Wilson	K2	2	2	1	1	2	1	2	1	0	0	0	0	0	0	0.5	0	1	1	1	1	0.5	0.5	1	0.5	1	0.5	0.5	0.5	0	0.5	1	0.7
Tokyo	K2-3				0.5					0			0	0	0								0	0	0.5	0.5	0	0	0.5	0.5	0	0	0.2
	Mean	1.5	1.7	0.8	0.7	1.4	1.3	1.2	1.2	0.1	0	0	0	0.2	0	0.2	0.2	0.5	0.8	1	0.9	0.4	0.2	0.3	0.4	0.5	0.1	0.1	0.3	0.2	0.3	0.2	0.5

August

Arcetri/Firenze	K3	0.5	0.5		0.5			0		0	0	0.5	0								0		0.5	0			0.5	0.5		0.5			0.3
Cambridge/Kodaikl.	K2-3	0	0.5*	0.5*		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5*	0.5*	0.5*			0	0	0.1
del Ebro	K2			1.2	1.2	0	0	0	0	0								0	0	0				0.2	0.7	1.5			1	0.7	0.7		0.4
Kwasan	K2	0.5	1	0.5	0			0	0	0		0		0	0	0	0	0	0	0	0			0	0	0.5		1	0.5	0.5	0.5		0.2
Meudon	K3	1			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1		0.5	0.5	0.5	0	0.2
Mount Wilson	K2	1	1	1	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1	1	0.5	0.5	1	1	0	0.3
Tokyo	K2-3		0.5		0.5		0	0			0					0					0					0.5					0		0.2
	Mean	0.6	0.7	0.8	0.6	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0.2	0.8	0.8	0.6	0.6	0.6	0.4	0	0.2

June

Arcetri/Firenze	K3							0								0																	
Cambridge/Kodaikl.	K2-3	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
del Ebro	K2			0	0	0	0		0			0			0	0.2	0.2		0.2	0.2		0.5	0.7		0.2	1		0.2	0	0	0		0.2
Kwasan	K2	0	0	0	0			0		0	0						0		0	0	0	0			0					0			0.0
Meudon	K3	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	K2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0	0		0			0.1
Tokyo	K2-3		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	0.2	0.4	0.2	0.2	0.4	0	0.1	0	0	0		0.0

* Days of special activity

No. 20 International Astronomical Union October/December 1932

BULLETIN FOR CHARACTER FIGURES OF SOLAR PHENOMENA

Published by the

Eidgen. Sternwarte in Zürich

Co-operating Observatories: Arcetri-Firenze, Cambridge (England), Catania, del Ebro, Ewhurst (Mr. Eversheds), Greenwich and Cape-Town, Kodaikanal, Kyoto-Kwasan, Lyons, Kiew, Meudon-Paris, Mount Wilson, Roma/Campid., South Hadley, Stonyhurst, 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 semi-diameter of the sun's disc has been taken.

Whole Sun Disc

October

Observatory		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	Mean
Arcetri/Firenze	K3																0.5	0.5	0.5		0.5		0.5				0.5						0.5
Cambridge/Kodaikl.	K2-3	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	0.5	0.5	0.5	0.5		0.5		0.5	0.5
del Ebro	K2								0.2	0.5		0.5	0.5	0.2	0.5	0.7		1	1.2	1.5	1.5	1.5		1		1	0.7	0.7					0.8
Kwasan	K2	0.5	0.5	0.5	0.5	0.5	0.5				0.5	0.5	0.5	0.5				1			1						0.5	0.5	0	0		0.5	0.5
Meudon	K3	0.5		0.5	0.5	0.5	0.5	0.5		0.5			0	0					1.5	1.5			1.5	1.5		1.5	1	0.5	0.5				0.8
Mount Wilson	K2	0.5	0.5	0.5	1	1	1	1	1		1	1	0	0	0.5	1		1	1			1	1	1	1	1	1	1	0	0	0	0	0.7
Tokyo	K2-3	0				0.5	0.5	0.5	0.5		0	0						1			1				1			0	0				0.4
	Mean	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.3	0.2	0.5	0.8	0.5	0.8	0.9	1.2	0.9	1	0.9	1	0.8	1	0.7	0.5	0.1	0.2	0	0.3	0.6

November

Arcetri/Firenze	K3		0	0		0										0.5	0	0	0.5														0.1
Cambridge/Kodaikl.	K2-3	0.5		0.5	0.5	0.5	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		0	0	0		0.5			0.4
del Ebro	K2		0.5	0.5				0.5					0.5	0.5	0.7			0.7		1			0.2	0	0	0	0.2	0.2					0.4
Kwasan	K2	0	0.5	0.5	0.5	0.5			0	0		0.5	0.5			1		0.5	0.5	1		1	0.5	0.5	0					0.5	0.5		0.5
Meudon	K3	0		0.5	0.5	0.5		0	0					0.5									0.5		0	0			0	0	0		0.2
Mount Wilson	K2		1	1	1	0.5	0	0	0	0	0	0.5	0.5	1	1	1	1	1	1	1	1	1	0	0				0	0	0.5			0.6
Tokyo	K2-3	0									0							1		0.5													
	Mean	0.1	0.5	0.5	0.6	0.4	0.2	0.2	0	0	0.2	0.5	0.5	0.6	0.7	0.8	0.5	0.6	0.6	0.9	1	0.8	0.3	0.1	0	0	0	0	0	0.3	0.5		0.4

December

Arcetri/Firenze	K3																0.5																
Cambridge/Kodaikl.	K2-3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1				1		1	1	1	1	0.5	0.5	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5
del Ebro	K2	0.5					0.7			1.7			1.5									0.5	0.2	0.2				0.2	0.2	0.5	0.5	0.5	0.6
Kwasan	K2	1	1	1.5						1.5	1.5	1.5			1.5	1.5		1		0.5			0		0								1.0
Meudon	K3		2		2	2			2.5	2.5								1.5	1.5	1.5	1		0	0	0				0.5		0.5	1.2
Mount Wilson	K2	1	1	1	1	1	1.5	1.5								1	1	1	1		0		0	0	0	0	0	0	1	1	1		0.7
Tokyo	K2-3													1.5	1.5	1	1	0.5	0.5	0.5	0	0	0	0	0							0.5	0.5
	Mean	0.8	1.1	1	1.2	1.2	0.9	1	1.5	1.7	1.5	1.5	1.5	1.2	1.5	1.1	0.9	1	1	0.8	0.4	0.2	0	0	0	0	0	0.2	0.6	0.6	0.7	0.5	0.8

Central Zone

October

Observatory		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	Mean
Arcetri/Firenze	K3																0.5	0.5	0.5		0.5		0.5				0.5						0.5
Cambridge/Kodaikl.	K2-3	0	0	0	0	0.5	0.5	0.5	0.5	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		0		0	0.3
del Ebro	K2								0.5	0.2		0	0	0	0	0.5		0.5	1.2	1	1	1		1		1	1	0					0.6
Kwasan	K2	0	0	0	0	1	0.5				0	0	0	0				0.5			0.5						0.5	0	0	0		0	0.2
Meudon	K3	0		0	0	0.5	0.5	0.5		0			0	0					2	1.5			2	1		1	0.5	0	0	0			0.5
Mount Wilson	K2	0	0	0	1	1	1	1	1		0	0	0	0	0	1		1	2			1.5	2	1	1	1	1	0	0	0	0	0	0.6
Tokyo	K2-3	0				0.5	0.5	0.5	0.5		0	0						0			1				0.5			0	0				0.3
	Mean	0	0	0	0.2	0.7	0.6	0.6	0.6	0.1	0	0	0	0	0	0.8	0.5	0.5	1.2	1	0.7	1	1.2	0.9	0.7	0.9	0.7	0	0	0	0	0	0.4

November

Arcetri/Firenze	K3		0	0.5		0										0.5	0.5	0.5	0.5														0.4
Cambridge/Kodaikl.	K2-3	0		0.5	0.5	0	0	0		0	0	0	0	0.5	0.5*	0.5*	0.5*	0.5*	0.5			0	0	0			0	0	0		0		0.2
del Ebro	K2		0.5	0.7				0.2					0.2	0.5	1			0.7		0			0	0	0	0	0	0.2					0.3
Kwasan	K2	0	0.5	0.5	0.5	0			0	0		0	0			1		0.5	0.5	0		0	0	0	0					0	0		0.2
Meudon	K3	0		0.5	0.5	0		0	0					0.5									0		0	0		0	0	0			0.1
Mount Wilson	K2		1	1	0.5	0	0	0	0	0	0	0	0.5	1	1	2	1	1	1	0	0	0	0	0				0	0	0			0.4
Tokyo	K2-3	0									0							0.5		0													
	Mean	0	0.5	0.6	0.5	0	0	0	0	0	0	0	0.2	0.6	0.8	1	0.7	0.6	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0		0.2

December

Arcetri/Firenze	K3																0																
Cambridge/Kodaikl.	K2-3	0	0	0.5	0.5*	0.5*	0.5*	0.5*	0.5	0				1*		1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0.5	0.2
del Ebro	K2	0					0.7			0.5			2.2									0.2	0.2	0.2				0.2	0.2	0	0.2	0.5	0.4
Kwasan	K2	0	0	0.5						0	0	0.5			1.5	1.5		0		0			0		0								0.3
Meudon	K3		0		3	3			0	0								0	0	0	0		0	0	0					0		0	0.4
Mount Wilson	K2	0	0	2	2	2	2	1								0.5	0	0	0		0		0	0	0	0	0	0.5	0	0.5	1		0.5
Tokyo	K2-3													2	2	1	0	0	0	0	0	0	0	0	0							0.5	0.4
	Mean	0	0	1	1.8	1.8	1.1	0.8	0.2	0.1	0	0.5	2.2	1.5	1.8	1	0	0	0	0	0	0.1	0	0	0	0	0	0.4	0.1	0.1	0.6	0.4	0.5

* Days of special activity