

GEOMAGNETIC MEASUREMENTS AT SÃO JOSÉ DOS CAMPOS

Data Summary for the period July 1964
through June 1967 and
Final Report on Grant AF AFOSR-654-64

F. de MENDONÇA

and

J. MARQUES COSTA

Scientific Report LAFE-059
July 1967

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This research was supported in part by the United States Air Force under Grant AF AFOSR-654-64; monitored by the Air Force Cambridge Research Laboratory of the Office of Aerospace Research and administered by the Air Force Office of Scientific Research.

Conselho Nacional de Pesquisas
Comissão Nacional de Atividades Espaciais
Laboratório de Física Espacial

São José dos Campos
São Paulo - Brasil

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INTRODUCTION

This is a final report for Grant AF-AFOSR-654-64 and also includes the research in geomagnetism (Project MATE) at our laboratory until 30 June 1967.

The project began in July 1964, with measurements of the total geomagnetic field intensity utilizing a Varian X-4936 Optical Pumping Rubidium Vapor Magnetometer at S. José dos Campos, obtained from AFCRL through Grant AF-AFOSR-654-64, that expired on June 30, 1967. A continuation grant AF AFOSR-654-67 covering the period July 1st, 1967 until May 1970 has been award also by USAF.

A second Rubidium Vapor Magnetometer Varian X-4934 was added to the project, loaned by Stanford University; this unit will be installed at Natal in the near future for providing measurements near the magnetic dip equator .

The São José dos Campos station, with geographical coordinates $23^{\circ}14'S$ and $45^{\circ}51'W$, stands near the center of the Brazilian Magnetic Anomaly (0.24 gauss).

The interpretation of magnetograms and data processing are carried at the Space Physics Laboratory, Brazilian Space Commission (CNAE). The data are regularly reproduced in "Geophysical and Space Data Bulletins" (AFCRL), and the resultant work of the group is published internally by "LAFE Reports" (CNAE) and in international scientific periodicals.

PROJECT STAFF

Principal Investigator:

Fernando de Mendonça, PhD

Investigators:

Period

Graduate students:

J. Pantuso Sudano, BS	June 64 - June 66
J.A.A. Amarante, BS	Jan. 66 - March 67
A. Barros de Melo, BS	June 1966
L.A. Vieira Dias, BS	May 1967
J. Marques da Costa, BS	Oct. 1966

and two undergraduate students.

Maintenance Technician:

Antonio Regioli

RÉSUMÉ OF ACTIVITIES OF THE PROJECT

During 1964:

- a) Geomagnetic total field intensity measurements taken at magnetic conjugate points (Amapá and Barbacena), both in Brazil, during the month of December; the work was executed with the cooperation and instrumentation supplied by Lamont Geological Observatory, Columbia University.
- b) Geomagnetic total field measurements at São José dos Campos, started in July using the AFCRL magnetometer.

During 1965:

- a) A paper was published by J. R. Heirtzler*, F. de Mendonça and H. Montes*, "Rapid Geomagnetic Activity at very low Latitude Conjugate Station", Annales de Geophysique, tome 22, n° 3 Juillet-Septembre 1966; presented at 2nd Equatorial Aeronomical Symposium, 1965, São José dos Campos; based on data from Amapá and Barbacena Stations, December 1964.
- b) Another paper was prepared by J. L. R. Muzzio, P. Ramirez Pardo and F. de Mendonça, "Measurements of the Earth's Total Magnetic Field at Heights of 1000 km in the Brazilian Magnetic Anomaly", LAFE-026, CNAE; the data for this paper was obtained with the use of topside sounder satellite Allouette (Molozzi, 1964); this paper was presented at the COSPAR 6th International Space Symposium, Buenos Aires, May 1965.

* Lamont Geological Observatory, Columbia University, Palisades, N. Y., U. S. A.

- c) The geomagnetic total field measurements were continued at São José dos Campos, using the AFCRL magnetometer.

During 1966:

- a) A report LAFE-048, was prepared in November, by J.A. A. Amarante, entitled "General Topics on Geomagnetism and a Study about the Occurrence of micropulsations in São José dos Campos".
- b) Measurements of the total field were made at Cassino ($32^{\circ}11'S$ - $52^{\circ}W$) during the total Solar Eclipse of 12 November 1966.
- c) Geomagnetic total field intensity measurements were continued at São José dos Campos using the AFCRL magnetometer.

During 1967:

- a) A report LAFE-055, was prepared in April, by J.A.A. Amarante entitled " A Guide for the Identification and Classification of the Short-time Geomagnetic variations".
- b) Report LAFE-057 was prepared in August by J.A.A. Amarante entitled " Um Método para a Determinação da Atitude de Foguetes em Voo Livre através do Uso de Sensores Magnéticos ".
- c) A study and survey is under way for installation of nine magnetic stations, located along a magnetic meridian and symmetrical with respect to the dip equator in the interval of approximately $\pm 20^{\circ}$ dip. This project, under the responsibility of Prof. W. Kertz of the Institut für Geophysik und Meteorologie, Technische Hochschule, Braunschweig, Germany, will receive close cooperation from Project MATE. It is expected that the results of this experience will lead to better knowledge of the equatorial electrojet and surrounding areas.

- d) Development and construction of a Proton Precession Magnetometer has been started at our laboratory by A. Barros de Melo.
- e) A magnetogram processing device has been designed and constructed.
- f) Complete overhauling of the Varian X-4934 Rubidium, Vapor Magnetometer.
- g) The geomagnetic total field measurements at São José dos Campos are continuing on a routine basis.

GENERAL CONSIDERATIONS

The table below shows the magnetic station performance at São José dos Campos, in the period between the installation of the magneto meter in June 1964 and July 1967.

	J	F	M	A	M	J	J	A	S	O	N	D
1964	-	-	-	-	-	-	T	T	P	P	P	T
1965	T	T	P	T	T	T	T	P	P	T	P	T
1966	P	P	O	O	P	P	O	O	T	P	P	P
1967	T	P	T	T	P	O						

T total operation
P parcial operation
O out of operation

The main reasons for the unsteady functioning of the station are the following: constant instrumentation failure (old equipment), local electrical power failure and lack of imported spare parts which used to take too long to arrive due to customs problems. Steps are being taken in order to improve performance of the station, through better maintenance service.

DATA

The following pages contain tables of data processed at CNAE, for every month of the period under consideration. These tables give in rows the hourly mean of the total field per day, the daily mean, the range and an index. The "daily range" is the difference between the largest and the smallest hourly mean of the field during that day. The "index" is the root mean square of the hourly deviations from the average field of the day. The two last rows present the hourly mean during the month and the monthly mean. At such tables a dot, a zero or both means that the data could not be taken. These data are somewhat different from the ones presented before due to the fact that some modifications were made in our calculation method to correct errors that were presented in the earlier data.

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JULY 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	93.0	93.4	94.2	94.1	94.1	95.9	105.4	10.90	36.0
	97.5	99.9	101.8	103.7	110.4	118.8			
	124.4	129.0	122.9	118.0	116.3	113.8			
	107.2	104.1	103.1	100.3	98.1	95.1			
2	95.4	94.6	93.8	93.9	95.4	96.4	109.5	14.19	45.3
	98.3	99.2	100.7	102.1	106.7	113.3			
	117.3	120.9	126.3	133.6	139.1	137.4			
	126.3	117.0	109.0	103.1	100.9	107.3			
3	108.1	103.4	97.5	98.1	92.9	98.3	96.4	15.71	60.5
	94.6	89.1	98.2	99.0	106.8	114.6			
	117.9	109.3	117.6	118.1	104.9	89.7			
	90.1	88.6	84.6	74.3	57.6	60.1			
4	61.9	58.7	70.3	77.2	77.2	84.5	87.2	13.76	55.1
	85.7	82.0	83.3	85.3	90.9	98.2			
	105.8	111.7	113.8	108.4	100.5	93.1			
	89.2	85.9	84.3	82.3	82.2	81.0			
5	81.0	80.0	81.7	85.5	87.2	87.5	91.3	8.79	33.2
	87.0	88.5	89.3	91.4	96.3	104.5			
	113.2	111.9	104.7	93.9	90.4	92.1			
	91.9	90.1	88.4	85.3	84.5	84.5			
6	81.7	88.1	87.4	85.2	84.6	85.5	92.7	6.69	23.2
	84.9	87.7	89.0	92.0	95.3	100.5			
	104.9	104.3	101.0	102.2	101.2	94.9			
	94.4	96.2	91.3	88.6	89.7	93.6			
7	94.2	88.8	83.6	84.8	91.8	83.6	91.8	9.88	44.9
	87.5	88.3	90.8	90.8	97.2	105.2			
	111.0	109.0	109.3	99.0	97.2	92.4			
	91.2	84.2	88.1	85.4	83.3	66.1			
8	66.9	82.7	78.8	94.3	85.9	79.5	85.6	9.56	40.7
	81.0	82.2	83.2	84.1	88.5	90.2			
	99.2	106.2	107.6	92.2	88.6	87.4			
	83.2	81.2	71.9	70.7	86.6	81.4			

JULY 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	73.2	91.8	83.1	76.0	79.2	85.2	86.1	6.20	25.3
	89.3	84.6	82.8	81.0	85.8	92.1			
	96.3	98.4	93.1	92.0	82.3	80.7			
	83.7	86.8	86.9	86.4	81.9	94.5			
10	76.3	73.5	84.4	82.2	81.1	85.2	82.2	6.92	25.9
	89.6	85.2	77.5	82.8	88.9	88.7			
	91.2	93.7	91.8	91.1	81.3	67.8			
	69.0	76.3	78.2	80.5	79.9	76.6			
11	73.5	77.4	75.0	76.4	80.4	82.4	89.3	11.67	41.6
	83.9	84.8	86.2	86.8	90.8	97.4			
	105.9	111.7	115.1	112.5	101.3	90.2			
	85.8	85.6	88.6	85.3	82.2	83.9			
12	82.5	83.4	84.8	87.2	88.5	90.0	96.3	12.23	40.4
	88.7	89.0	89.8	93.0	97.8	105.8			
	113.9	120.7	122.9	119.7	107.2	101.4			
	101.4	95.3	88.2	85.6	86.1	89.5			
13	85.7	82.7	86.7	85.2	86.9	84.0	87.5	6.97	.0
	82.7	84.1	85.6	85.6	93.9	95.5			
	103.8	107.3	.0	.0	.0	.0			
	86.1	85.3	83.2	81.8	82.4	81.5			
14	.0	.0	.0	83.6	84.0	84.9	93.7	9.44	.0
	91.0	92.2	93.4	93.0	97.1	101.2			
	106.1	109.6	113.8	111.8	99.0	87.5			
	85.1	86.8	86.8	87.0	87.0	86.3			
15	85.3	85.5	86.0	86.1	85.8	85.4	95.5	10.99	35.7
	85.3	85.9	86.4	83.0	93.2	102.7			
	106.6	116.2	121.0	119.5	107.2	94.9			
	95.5	96.7	97.3	94.3	93.7	94.4			
16	93.9	92.8	93.9	93.2	92.8	91.8	100.7	11.77	39.7
	90.6	92.8	95.2	96.8	101.6	108.0			
	119.9	122.3	124.3	123.9	120.0	99.6			
	98.9	96.9	95.4	96.3	92.0	84.5			

JULY 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	84.4	88.2	81.4	83.3	86.3	89.1	96.9	21.66	71.6
	94.0	96.8	97.9	101.3	107.2	117.6			
	125.1	136.2	139.7	140.1	121.2	91.4			
	76.2	68.4	72.7	71.7	76.1	78.9			
18	71.8	85.5	68.6	65.2	76.7	75.6	78.6	10.57	38.3
	69.4	72.6	77.8	82.5	86.7	84.9			
	99.5	101.9	96.3	86.6	87.6	81.0			
	73.4	67.7	66.9	63.6	69.0	75.6			
19	73.3	77.4	83.1	80.1	78.9	77.2	85.3	11.88	44.2
	78.0	78.5	89.7	92.3	95.0	95.1			
	98.5	101.8	106.2	104.9	100.5	89.2			
	86.2	82.8	80.7	66.6	69.6	62.0			
20	58.7	62.7	61.8	65.3	72.4	73.2	79.1	11.16	39.4
	73.0	71.8	75.7	78.2	85.3	90.9			
	98.1	96.3	96.5	96.0	90.6	84.7			
	81.9	77.0	79.5	76.6	76.2	75.2			
21	75.3	78.3	76.5	75.2	77.6	77.8	81.8	5.95	19.6
	79.3	80.7	81.7	83.0	86.4	90.6			
	93.8	91.1	88.8	91.5	86.7	81.6			
	75.6	74.2	76.4	74.2	82.5	83.6			
22	82.6	81.7	81.1	84.0	82.4	88.3	86.8	9.23	31.5
	82.6	83.2	85.4	87.1	89.0	95.9			
	101.4	102.9	107.7	105.4	92.8	76.2			
	76.6	83.4	79.1	81.6	76.6	76.4			
23	74.0	80.9	87.2	83.0	81.6	81.0	85.4	9.06	35.0
	82.3	82.3	81.5	81.1	87.2	90.7			
	90.1	97.4	109.0	107.6	98.5	84.6			
	76.5	77.6	80.4	78.8	78.9	78.0			
24	81.0	82.1	83.0	83.4	84.5	85.6	88.6	6.73	.0
	85.5	87.5	87.1	89.0	.0	.0			
	.0	99.8	99.3	101.0	101.0	.0			
	.0	.0	.0	86.1	85.2	86.0			

JULY 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	84.0 92.3 111.1 95.3	82.3 92.6 117.2 88.1	82.3 97.1 121.9 89.1	81.8 100.2 122.3 85.2	84.5 99.9 117.8 84.7	88.9 106.6 106.2 87.2	96.6	13.11	40.5
26	87.4 93.0 116.4 89.7	86.1 92.5 119.1 89.4	86.9 93.4 118.7 .0	87.5 95.2 116.1 88.3	90.8 101.8 108.7 87.6	91.5 109.3 96.7 89.7	97.2	11.16	.0
27	90.2 93.1 113.3 100.2	91.2 92.0 116.6 96.0	92.7 92.7 118.3 95.2	91.4 95.8 117.5 95.5	92.4 103.4 111.1 94.3	93.7 108.0 106.0 92.4	99.7	9.25	28.1
28	89.2 93.0 108.1 102.8	89.8 93.2 112.9 100.8	89.8 93.7 117.1 99.9	92.1 95.8 111.2 95.8	93.9 100.7 105.5 95.1	93.4 104.9 103.5 97.3	99.1	7.58	28.0
29	96.1 99.1 115.6 93.5	94.5 93.4 115.0 77.4	95.4 96.4 114.2 62.1	96.0 104.0 113.4 79.6	98.9 106.4 108.4 82.7	99.9 107.8 100.0 81.0	97.1	12.98	53.5
30	77.7 84.1 100.1 80.3	84.4 91.3 100.9 74.2	80.5 93.3 104.2 76.1	83.2 92.5 97.9 75.4	85.2 99.8 94.4 75.6	82.1 97.0 90.7 78.4	87.5	9.25	30.0
31	84.4 87.0 103.2 93.2	82.5 87.2 110.5 88.5	80.4 89.3 108.4 86.5	80.5 90.2 102.8 83.2	83.3 94.7 101.4 78.4	87.0 106.9 96.6 79.2	91.1	9.60	32.1

HOURLY MEAN
DURING THE MONTH

82.1	84.1	83.7	84.4	85.7	86.6
87.2	87.5	89.2	91.1	96.2	101.4
107.1	109.7	111.0	108.3	102.1	93.5
89.4	86.7	85.2	83.5	83.2	83.3

MONTHLY MEAN 91.7

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

AUGUST 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	83.3	80.8	80.1	82.2	82.1	82.9	93.2	13.83	43.8
	83.9	86.8	88.6	90.4	97.6	108.0			
	120.3	123.9	121.8	110.5	102.7	100.2			
	93.7	85.7	82.7	85.1	82.4	81.7			
2	81.9	81.4	80.2	80.7	83.2	85.1	91.3	10.87	34.7
	83.8	83.8	87.2	90.7	97.1	102.8			
	107.4	112.5	114.8	109.4	102.9	96.0			
	89.1	83.8	82.8	84.7	85.3	84.0			
3	83.3	86.9	86.6	87.0	87.1	89.5	94.8	10.03	34.7
	87.8	88.4	92.7	98.2	103.2	109.4			
	114.5	118.0	110.7	95.3	87.0	85.2			
	85.5	86.1	92.5	98.5	97.1	105.0			
4	100.1	103.4	124.7	94.3	56.5	75.5	75.9	16.59	70.3
	57.1	56.3	63.1	54.5	65.7	77.3			
	82.9	86.2	82.6	83.1	76.3	68.7			
	65.9	64.2	66.2	68.8	72.5	75.0			
5	70.6	66.9	71.2	75.0	79.4	77.1	75.7	8.18	32.1
	76.8	76.9	79.2	82.3	84.6	91.2			
	85.0	88.6	86.0	75.0	78.4	74.9			
	64.2	60.1	59.0	68.9	71.0	75.7			
6	69.5	71.4	81.0	80.0	74.4	76.9	80.4	8.31	29.0
	75.0	73.9	75.2	75.7	81.4	89.7			
	94.6	96.4	98.4	94.8	86.9	82.8			
	76.9	72.6	74.2	76.4	76.0	76.5			
7	78.5	75.1	90.0	80.3	75.5	71.6	82.3	10.95	37.5
	72.5	75.7	75.5	76.2	84.1	98.2			
	102.7	107.4	101.3	92.1	91.8	84.0			
	81.8	75.2	72.2	71.3	69.9	73.3			
8	72.5	73.3	78.4	77.2	76.6	79.7	85.7	11.93	37.5
	77.9	78.1	80.5	82.7	90.3	100.2			
	106.9	110.0	109.2	102.3	97.5	95.1			
	83.0	75.8	77.7	77.4	77.2	78.4			

AUGUST 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
9	77.0 79.7 115.2 76.8	74.0 80.9 121.8 65.2	73.9 85.4 121.7 66.1	81.1 89.5 114.5 66.1	78.3 98.4 100.9 67.9	76.4 108.9 86.8 70.9	86.6	17.80	56.6
10	74.4 82.5 100.7 90.7	74.8 86.2 103.3 86.7	76.6 87.9 102.8 85.8	82.1 89.4 106.2 85.3	82.3 91.7 104.0 84.5	82.7 94.6 97.9 83.6	89.0	9.13	31.8
11	84.2 84.7 117.6 63.3	97.0 90.4 125.7 61.4	84.9 88.9 124.5 69.1	78.0 89.0 102.8 58.8	75.2 99.1 98.6 73.5	78.2 106.4 81.6 80.8	88.1	17.95	67.0
12	67.3 89.2 111.5 77.4	74.1 88.4 123.1 60.2	86.1 92.4 115.6 63.8	82.9 95.1 108.5 66.1	81.0 92.5 95.8 70.3	82.7 96.8 85.3 67.7	86.4	16.51	62.9
13	75.8 86.6 114.1 85.7	77.5 81.2 114.7 81.6	77.0 81.8 113.4 78.8	78.8 84.4 109.6 80.3	82.4 92.7 103.7 81.6	84.3 103.2 94.7 83.2	89.5	12.68	38.9
14	83.2 83.4 102.6 93.6	82.3 82.8 103.3 82.1	79.1 84.0 105.0 75.2	78.1 84.6 104.4 76.1	81.6 92.2 99.4 75.8	83.1 98.9 96.8 77.7	87.7	9.89	29.8
15	78.6 85.4 107.5 87.6	80.5 85.7 115.7 84.2	77.1 86.0 121.9 79.4	78.4 87.7 123.4 76.9	85.5 93.1 112.8 77.2	85.9 100.9 96.5 77.4	91.1	14.48	46.5
16	75.2 91.4 104.6 88.3	76.6 89.5 106.8 83.0	90.9 94.7 110.8 81.0	97.0 98.1 113.2 80.7	92.3 102.1 98.9 81.7	94.5 101.9 91.6 82.3	92.8	10.32	38.0

AUGUST 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	82.4	77.8	72.1	82.1	86.1	84.8	91.7	15.08	54.6
	85.7	86.4	88.7	91.0	97.2	105.8			
	114.2	122.8	126.7	121.5	99.5	83.4			
	78.0	78.9	81.9	84.1	84.6	84.4			
18	83.0	80.9	84.5	86.1	84.8	86.0	91.7	14.32	48.9
	83.4	92.1	93.8	92.0	96.5	106.0			
	109.8	123.5	124.4	118.0	99.6	84.4			
	75.7	75.5	77.4	80.8	80.8	82.4			
19	82.4	82.9	83.2	85.1	87.6	87.3	87.9	11.85	42.0
	86.9	86.2	86.9	88.4	91.2	98.3			
	105.8	112.4	114.1	108.2	91.4	83.6			
	80.8	76.4	72.8	73.8	72.3	72.1			
20	75.4	76.4	78.9	83.8	87.3	86.4	91.7	12.22	43.0
	86.2	86.6	87.2	83.7	96.4	105.0			
	110.1	114.6	118.4	116.3	101.0	87.8			
	88.8	86.9	82.0	83.0	87.6	86.4			
21	84.6	83.4	84.7	86.9	90.7	90.4	97.7	11.14	41.5
	90.1	91.0	92.6	96.8	102.8	104.9			
	109.8	114.9	120.2	124.9	112.0	99.4			
	97.9	95.5	95.3	91.7	90.7	93.6			
22	89.0	83.1	83.7	80.1	80.4	80.9	91.4	12.05	41.5
	87.6	88.0	90.5	87.7	85.6	97.4			
	99.2	113.2	118.3	117.4	111.4	93.9			
	91.6	91.1	87.8	81.1	76.9	76.9			
23	79.1	81.9	83.3	85.5	87.0	87.8	94.9	11.57	40.5
	86.4	88.9	91.2	93.2	98.2	103.3			
	108.4	114.2	119.1	119.6	110.4	101.4			
	95.2	91.4	87.9	86.9	88.3	88.1			
24	88.0	88.5	87.4	89.3	89.8	87.3	99.4	12.69	39.3
	88.1	89.0	91.2	95.9	105.1	113.7			
	121.8	126.6	125.2	120.9	108.4	96.4			
	96.8	92.8	92.1	96.2	96.4	98.0			

AUGUST 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

HOURS OF DAY							MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
DAY	19	20	21	22	23	24			
25	96.1	92.3	89.1	86.4	89.4	92.3	98.3	18.34	67.8
	92.2	91.0	92.1	96.7	108.0	122.2			
	132.5	138.0	136.6	119.9	110.7	84.4			
	70.2	78.0	85.1	85.7	87.8	83.2			
26	66.2	70.7	75.0	85.7	82.2	79.5	87.8	12.33	45.6
	82.9	86.7	85.6	88.5	96.8	102.1			
	103.9	111.9	110.4	106.2	100.7	91.5			
	83.3	80.7	83.7	81.8	74.9	75.5			
27	73.2	79.2	80.6	76.2	75.1	79.5	88.9	13.36	44.8
	83.9	86.9	86.4	95.1	95.7	101.2			
	110.0	113.4	118.0	111.7	103.3	87.2			
	82.6	80.1	81.0	78.8	78.0	77.2			
28	77.0	77.6	78.7	80.7	82.5	83.9	93.3	16.37	50.6
	83.2	82.5	84.3	88.4	94.9	104.0			
	113.3	121.7	126.3	127.6	120.3	104.9			
	94.0	85.6	83.1	81.6	81.8	81.9			
29	85.5	86.8	86.6	88.2	90.9	93.0	95.9	11.06	36.0
	92.7	95.5	95.2	94.3	100.4	108.3			
	114.3	117.1	119.4	115.6	104.9	95.2			
	88.2	86.2	86.9	83.3	85.3	87.8			
30	86.6	84.9	83.7	93.2	98.5	104.3	98.1	11.88	43.4
	90.7	90.6	92.1	84.4	86.1	87.8			
	110.0	115.5	120.6	127.0	117.9	101.8			
	99.9	96.4	97.4	95.7	95.5	94.8			
31	91.6	92.0	92.0	92.9	89.0	89.8	93.3	11.66	48.2
	85.7	85.1	85.4	88.1	90.7	91.5			
	100.6	110.2	113.7	112.9	115.6	107.5			
	99.4	93.6	85.1	80.6	78.2	67.4			

HOURLY MEAN
DURING THE MONTH

80.5	81.1	83.3	83.7	83.1	84.5
84.0	84.9	86.7	88.3	93.9	101.3
108.1	113.8	114.6	110.1	101.4	91.0
84.7	80.6	80.2	80.2	80.7	81.4

MONTHLY MEAN 90.0

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

SEPTEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	70.1	71.6	74.4	84.5	75.8	71.7	88.3	21.26	73.4
	73.3	76.4	72.9	78.9	88.7	99.2			
	110.6	125.4	139.2	132.1	116.2	95.7			
	97.1	86.6	77.6	68.5	66.3	65.8			
2	.0	72.4	77.0	82.2	78.7	75.9	89.6	13.18	.0
	78.2	79.2	79.9	84.8	94.3	99.7			
	106.7	116.0	117.4	110.7	103.5	96.7			
	93.3	83.8	84.1	82.9	81.6	81.6			
3	81.1	83.7	78.1	81.2	77.1	77.6	88.7	15.26	53.8
	77.3	81.2	83.1	86.7	93.5	99.1			
	106.4	120.1	124.0	123.1	98.5	84.9			
	74.3	70.3	71.8	82.1	86.2	87.8			
4	88.1	84.8	80.5	85.9	86.0	85.7	91.1	16.86	57.1
	84.8	83.2	84.0	86.1	91.9	98.1			
	116.3	123.7	125.9	124.1	112.7	98.2			
	84.4	73.9	73.4	73.5	71.6	68.8			
5	72.0	80.6	78.8	87.0	83.0	80.3	88.6	11.96	41.1
	81.4	81.0	82.9	84.0	90.8	98.8			
	107.7	110.5	113.1	109.4	105.5	96.0			
	85.7	80.8	80.5	79.1	79.1	79.4			
6	79.7	78.8	79.2	79.7	80.4	83.1	93.3	20.12	68.1
	82.6	83.4	84.9	89.5	98.8	109.8			
	119.9	131.3	131.3	133.7	119.8	102.8			
	87.4	82.1	96.2	72.4	65.6	67.4			
7	57.4	56.3	66.9	75.0	78.8	87.5	78.6	20.56	64.9
	79.8	86.0	87.9	97.5	97.4	100.0			
	110.3	114.7	107.1	102.3	86.2	64.8			
	50.9	49.8	52.5	53.6	50.4	73.4			
8	68.8	72.7	82.1	75.7	73.5	80.3	84.6	16.71	57.6
	78.5	77.6	85.4	89.7	90.8	101.7			
	107.0	112.3	122.0	116.3	102.4	83.0			
	74.6	69.6	64.4	64.8	65.1	72.7			

SEPTEMBER 1964 S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	76.2	76.4	82.1	92.7	91.4	79.5	82.7	14.25	58.9
	79.3	78.4	78.8	81.2	88.0	93.9			
	95.7	103.6	112.8	107.2	94.9	83.8			
	71.6	62.8	53.9	65.3	69.6	64.9			
10	65.3	65.0	80.6	71.5	72.3	72.6	84.4	14.52	46.1
	73.9	75.7	79.1	84.3	92.3	100.2			
	107.4	111.0	111.1	108.7	100.7	94.6			
	81.0	75.2	74.5	75.1	76.1	76.3			
11	77.9	76.3	76.1	74.9	78.6	81.7	85.2	8.23	30.0
	82.3	82.6	83.9	85.2	86.2	89.5			
	95.5	99.9	104.9	100.4	94.7	90.4			
	85.6	81.2	79.7	79.3	79.4	78.7			
12	79.0	79.6	84.1	84.6	81.9	81.7	91.6	10.71	35.1
	82.3	83.9	86.9	91.5	97.2	99.6			
	104.2	111.2	114.1	112.4	106.7	95.1			
	88.3	89.5	89.8	87.2	84.4	82.9			
13	82.7	82.9	84.2	85.2	84.5	84.6	94.2	14.66	45.2
	84.8	84.5	85.7	88.7	95.5	103.5			
	116.3	125.1	126.8	121.4	111.1	101.2			
	92.5	88.9	84.5	82.1	82.1	81.6			
14	81.5	81.9	81.1	82.2	83.8	84.6	93.8	14.18	42.9
	84.5	86.4	87.1	89.1	92.5	96.4			
	105.7	118.4	123.6	124.0	120.6	106.9			
	94.6	88.7	85.2	84.4	82.3	84.7			
15	87.1	86.7	86.4	87.5	85.8	86.3	106.3	22.97	70.1
	91.5	92.7	96.7	99.7	109.7	114.3			
	127.8	143.5	155.9	154.7	147.1	127.5			
	105.8	95.5	92.2	90.5	90.4	94.6			
16	100.0	97.5	92.1	92.2	88.6	84.1	94.5	29.70	107.6
	93.2	93.6	94.2	101.5	112.7	126.8			
	138.5	146.5	138.8	134.1	114.0	99.0			
	75.5	55.2	40.5	38.9	50.6	60.7			

SEPTEMBER 1964 S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	65.0	73.3	75.8	77.1	80.2	81.9	90.4	20.14	66.7
	81.4	80.2	83.0	90.0	97.1	110.2			
	116.8	131.7	131.8	123.9	113.4	106.7			
	83.8	77.3	70.6	71.1	73.6	74.1			
18	75.4	75.8	78.6	.0	.0	.0	99.1	21.91	.0
	.0	.0	.0	.0	.0	.0			
	.0	132.3	134.6	128.6	121.3	109.0			
	94.1	86.9	84.6	82.3	84.2	.0			
19	.0	.0	86.3	84.6	85.2	86.4	95.5	11.24	.0
	86.2	85.9	86.5	91.0	94.7	99.4			
	105.0	111.7	119.4	119.5	112.2	105.2			
	96.7	89.1	88.7	91.0	88.4	87.7			
20	87.5	87.9	88.6	91.2	89.9	89.2	99.9	15.34	45.6
	90.2	91.6	91.7	94.7	96.5	102.6			
	117.9	128.9	131.9	129.0	125.8	116.4			
	102.5	93.9	88.2	87.5	86.3	87.3			
21	89.0	91.3	92.9	93.9	93.5	91.6	105.4	14.91	48.2
	91.9	92.7	96.8	100.5	101.7	105.7			
	120.3	133.3	137.2	131.4	130.9	122.2			
	109.4	97.3	100.1	101.9	98.7	104.2			
22	112.6	88.7	57.0	68.3	51.1	58.9	74.0	17.34	61.4
	61.2	55.8	54.6	61.9	67.8	77.2			
	87.0	95.1	102.1	102.0	96.4	85.5			
	73.7	62.6	61.3	62.5	66.0	66.2			
23	65.0	66.0	68.7	68.6	68.1	70.6	83.6	15.03	44.7
	71.2	75.5	79.1	81.3	92.2	92.2			
	102.4	108.9	109.7	107.9	105.2	98.7			
	88.6	82.2	78.5	90.2	69.2	67.7			
24	68.9	70.7	71.1	72.7	79.3	76.0	80.9	11.53	39.2
	77.6	77.2	79.2	80.6	79.2	87.2			
	95.1	102.5	101.4	99.9	98.1	94.4			
	82.3	63.3	64.3	71.6	73.6	75.1			

SEPTEMBER 1964 S. JOSÉ DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	69.2	70.1	71.9	72.5	80.2	79.5	76.6	4.90	.0
	77.6	77.5	77.2	81.6	85.5	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	97.4	13.55	.0
	.0	.0	.0	.0	.0	.0			
	.0	108.6	113.0	116.3	113.5	107.2			
	94.3	84.5	83.7	82.9	84.0	83.9			
27	86.2	86.4	88.1	89.0	88.6	88.3	93.5	14.53	55.8
	85.9	86.9	90.2	93.9	99.5	108.4			
	116.2	114.8	112.9	113.0	111.2	108.7			
	100.2	86.6	83.5	77.2	67.7	60.4			
28	69.2	64.8	83.2	72.5	77.7	86.6	73.5	14.96	50.7
	85.0	85.2	82.2	95.9	82.2	80.2			
	87.7	96.0	88.6	78.3	61.9	70.4			
	66.8	48.2	46.8	45.3	52.9	55.9			
29	57.6	59.4	59.6	61.5	62.1	66.1	75.4	12.85	43.3
	64.4	66.9	66.7	69.9	74.8	81.4			
	88.0	91.8	96.2	100.9	96.2	90.7			
	82.2	78.5	79.8	76.9	72.1	66.2			
30	66.8	72.0	72.7	70.2	66.8	70.1	73.4	12.62	40.1
	65.7	65.6	70.9	71.0	73.9	86.4			
	96.1	95.5	96.3	94.8	87.6	79.8			
	61.9	56.9	56.2	58.4	58.5	67.7			

HOURLY MEAN
DURING THE MONTH

77.0	76.9	78.6	80.2	79.4	80.1
80.2	81.0	82.6	86.8	91.6	98.6
107.7	116.0	118.7	115.9	107.2	97.1
85.5	77.3	75.4	75.1	74.3	75.6

MONTHLY MEAN 88.3

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

OCTOBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	66.6	74.7	70.6	70.4	75.2	72.6	80.6	13.13	44.5
	68.7	70.7	72.1	77.4	81.0	86.8			
	98.8	111.0	110.3	104.1	94.0	86.4			
	80.7	74.6	72.8	71.7	71.9	71.0			
2	74.4	77.0	74.8	76.4	77.1	76.6	80.9	9.85	35.5
	76.3	76.6	77.7	82.3	83.1	85.9			
	94.7	102.1	105.1	97.8	89.9	82.4			
	71.9	69.6	69.6	72.6	73.9	74.1			
3	74.6	75.6	79.4	77.7	77.3	76.9	84.9	15.16	53.7
	78.1	79.3	78.0	81.4	81.9	85.6			
	102.0	125.8	121.0	113.6	100.3	76.2			
	73.7	75.3	77.1	77.6	76.9	72.1			
4	63.5	63.8	68.7	73.7	69.8	83.8	83.4	26.15	90.2
	80.7	82.3	81.5	85.8	94.7	102.1			
	111.5	123.1	137.6	138.6	123.8	71.5			
	67.4	51.0	53.7	52.1	48.4	72.1			
5	63.9	58.8	69.1	72.9	69.0	72.2	76.8	10.70	46.1
	70.9	72.1	74.8	77.2	79.0	79.4			
	82.2	85.5	99.5	104.8	93.9	85.4			
	77.9	66.8	72.9	72.7	65.9	76.0			
6	72.1	70.5	76.3	76.7	77.8	77.7	80.1	8.64	36.4
	75.9	77.7	81.5	80.4	81.6	84.5			
	89.0	92.1	99.0	97.0	89.3	87.5			
	82.0	74.6	72.2	73.9	69.8	62.6			
7	58.6	61.2	64.7	67.6	74.1	76.8	80.3	17.12	53.4
	72.1	68.9	72.2	74.2	76.3	85.1			
	92.8	102.2	107.9	111.2	112.0	106.7			
	97.6	85.6	71.2	60.0	62.5	65.9			
8	70.0	73.1	74.6	74.4	74.6	73.2	81.9	19.95	66.6
	73.7	73.5	75.7	84.0	84.1	95.1			
	107.7	117.7	121.8	120.5	110.9	90.2			
	78.1	63.6	55.5	55.3	58.5	59.6			

OCTOBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	57.7	63.3	65.7	68.8	74.5	75.8	71.0	10.37	37.5
	74.2	69.7	65.3	73.9	64.5	58.5			
	70.0	83.9	94.9	93.1	86.7	79.1			
	73.1	69.3	62.6	61.0	60.0	57.4			
10	63.9	69.4	70.4	72.9	73.5	74.4	75.5	6.82	.0
	74.6	75.1	75.7	77.4	77.0	83.3			
	93.6	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
11	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
13	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
14	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
15	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
16	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

OCTOBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

HOURS OF DAY

DAY	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24	MEAN	INDEX	RANGE
17	.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	.00	.0
18	.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	.00	.0
19	.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	.00	.0
20	.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	.00	.0
21	.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	.00	.0
22	.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	.00	.0
23	.0 77.2 115.2 95.3	.0 77.7 118.3 86.9	74.0 78.1 121.3 85.9	75.0 84.6 120.3 78.7	74.8 93.9 113.4 77.3	75.3 106.2 107.0 77.7	91.5	16.93	.0
24	77.4 85.1 118.7 101.1	80.1 85.5 126.2 98.0	82.1 89.1 127.3 91.8	82.9 95.2 .0 86.0	83.8 98.8 .0 86.7	82.6 106.2 114.7 79.9	94.5	14.90	.0

OCTOBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	71.6 82.6 98.4 97.2	71.8 86.5 110.0 93.5	73.9 88.5 115.6 90.7	73.2 90.9 115.6 87.2	79.2 89.4 108.0 84.1	79.2 91.5 100.3 87.1	90.5	12.42	44.1
26	99.8 91.0 87.1 72.7	93.9 76.8 92.8 66.1	97.7 71.7 96.5 62.8	105.8 80.5 97.0 84.1	105.3 80.8 91.0 84.0	95.7 83.9 77.9 84.9	86.7	11.38	43.1
27	66.9 72.5 90.3 83.0	66.9 73.3 96.7 77.8	66.4 75.9 98.6 76.1	68.1 75.4 99.9 75.9	71.1 77.0 97.3 73.2	70.4 79.3 90.8 70.5	78.9	10.57	33.5
28	68.7 73.9 106.6 88.6	71.8 75.2 115.2 86.7	72.6 78.0 114.5 84.6	74.2 82.7 113.3 80.8	73.7 88.2 106.2 79.9	73.9 99.3 96.3 79.8	86.9	14.55	46.5
29	79.4 73.8 93.7 82.4	74.8 73.9 100.4 79.4	72.9 78.6 104.8 79.9	85.6 80.1 106.3 76.5	78.8 85.1 99.3 73.6	75.9 87.5 91.7 71.4	83.6	10.27	34.8
30	71.6 77.0 100.3 87.3	70.2 79.3 104.1 85.1	70.1 83.8 100.3 82.2	70.5 84.1 95.5 79.1	72.6 84.5 91.0 77.8	74.4 90.8 88.1 77.8	83.2	9.79	34.0
31	76.3 81.2 106.2 98.7	76.0 82.5 108.8 94.6	75.5 83.9 111.9 95.3	77.3 86.0 112.7 91.4	77.8 .0 111.7 86.0	80.0 .0 104.9 87.2	91.2	12.82	.0

HOURLY MEAN
DURING THE MONTH

70.9	71.8	73.7	76.3	76.8	77.2
76.8	76.7	78.0	81.8	83.4	88.4
97.8	106.4	110.4	108.3	101.1	90.9
83.8	77.7	75.4	74.3	72.8	73.7

MONTHLY MEAN 83.3

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

NOVEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	80.6	82.2	82.9	92.0	98.4	92.8	93.8	22.38	86.1
	91.5	93.4	94.3	101.0	110.0	123.9			
	127.0	132.8	135.2	118.3	108.6	79.1			
	72.1	78.4	83.7	72.9	52.3	49.1			
2	63.8	65.3	72.3	70.9	70.1	72.9	79.2	10.32	38.1
	72.5	72.6	77.6	82.1	80.0	83.6			
	94.4	101.9	100.4	95.3	89.6	83.2			
	81.5	78.8	76.9	71.7	70.9	71.9			
3	69.0	68.7	72.5	71.6	72.4	72.5	83.5	11.12	37.4
	74.2	74.7	77.8	84.3	88.8	93.2			
	88.7	104.0	106.0	103.3	97.2	92.5			
	88.2	85.1	82.7	78.1	78.1	80.1			
4	82.0	84.1	82.3	81.0	75.8	78.1	93.8	18.16	58.7
	80.0	81.8	84.9	93.2	105.9	121.0			
	130.6	129.5	118.7	113.7	111.4	107.9			
	96.0	90.6	82.4	75.4	73.6	72.0			
5	74.4	72.1	71.0	74.5	75.1	74.4	87.0	16.06	46.8
	76.4	78.5	82.9	89.4	97.6	104.7			
	107.4	104.0	115.4	115.6	108.6	109.1			
	95.1	73.2	68.9	70.9	74.3	73.7			
6	70.1	71.2	74.2	77.2	78.9	80.2	91.3	16.10	56.7
	81.9	83.0	84.7	93.8	100.5	110.8			
	118.2	126.8	119.8	111.6	106.3	98.9			
	91.4	87.8	84.7	80.9	79.6	79.5			
7	79.2	78.2	79.3	80.3	80.2	80.5	93.1	11.92	38.1
	82.1	83.8	85.4	91.6	94.8	100.0			
	107.9	113.5	116.3	114.8	106.5	99.0			
	99.3	98.9	95.4	90.7	87.7	87.8			
8	98.7	102.4	96.7	100.5	106.2	104.0	94.2	7.62	.0
	93.4	92.2	95.0	96.6	96.5	96.9			
	101.5	.0	83.8	95.3	100.7	99.6			
	92.1	87.0	81.7	78.8	81.5	84.4			

NOVEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	83.6	74.6	80.4	72.5	90.7	84.8	78.6	8.28	30.6
	80.9	81.2	83.1	79.8	76.4	72.2			
	83.7	85.3	90.1	86.1	87.0	82.7			
	81.4	72.7	60.1	62.3	62.8	71.2			
10	70.5	66.6	82.4	76.9	77.0	77.2	85.1	12.33	41.3
	77.7	77.6	77.7	83.2	87.4	94.8			
	99.2	101.0	105.1	107.3	107.9	102.0			
	89.8	82.1	74.7	74.4	74.6	75.0			
11	75.8	76.0	77.6	82.1	89.0	85.9	91.7	12.58	39.0
	86.0	85.6	83.0	86.3	89.1	94.4			
	106.2	113.8	114.8	112.5	108.5	107.7			
	101.5	95.6	88.5	85.2	78.3	76.5			
12	78.5	80.6	82.2	78.0	74.8	76.7	89.9	16.83	53.1
	80.0	80.2	79.6	81.4	86.2	97.0			
	107.4	116.7	124.0	121.7	116.5	110.6			
	101.4	90.5	76.7	70.9	73.3	73.9			
13	73.4	73.6	76.4	78.7	77.3	76.3	84.0	10.30	29.4
	76.8	78.0	76.9	77.4	80.6	87.1			
	95.5	102.4	102.8	102.0	102.8	99.6			
	88.2	79.6	77.6	78.5	77.7	77.4			
14	76.4	76.7	76.6	77.3	77.3	78.0	88.3	11.97	38.6
	79.0	79.1	80.4	81.5	85.2	90.8			
	100.1	114.1	114.9	110.4	103.3	95.9			
	93.1	91.0	87.6	83.9	83.5	83.5			
15	82.9	82.7	82.1	83.4	82.2	82.1	96.0	27.04	.0
	82.3	84.6	87.5	97.2	118.3	128.1			
	141.6	147.3	158.2	.0	.0	.0			
	.0	89.6	88.5	82.6	63.6	54.6			
16	67.8	67.6	71.2	72.7	69.9	67.6	79.9	12.58	42.2
	73.3	80.2	82.7	86.0	88.9	91.5			
	101.1	106.6	101.1	96.6	90.4	86.2			
	77.4	69.7	64.4	68.5	67.5	67.9			

NOVEMBER 1964

S. JOSE DOS CAMPOS
F. 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	80.2	82.1	81.6	80.1	82.4	84.2	85.8	10.45	39.4
	86.1	88.5	91.4	99.4	109.3	105.9			
	97.4	98.3	96.5	90.1	82.3	80.3			
	75.6	73.5	73.5	69.8	74.0	77.4			
18	74.9	77.6	82.6	82.2	82.1	82.7	91.2	15.31	.0
	81.4	77.8	83.1	90.5	97.6	107.3			
	114.1	121.0	122.9	115.6	105.1	95.8			
	90.7	.0	86.5	77.0	75.7	74.0			
19	72.9	74.7	76.3	78.2	81.1	78.7	87.8	12.84	42.9
	79.6	78.2	78.6	80.9	84.8	91.3			
	101.9	111.4	113.6	115.8	108.7	97.1			
	91.3	84.9	81.1	83.4	81.7	80.6			
20	80.1	80.1	78.9	78.3	77.8	79.1	90.7	12.98	39.2
	79.8	80.2	80.2	85.7	90.2	94.9			
	103.9	109.3	115.3	117.0	114.0	104.3			
	100.3	92.9	86.6	83.4	83.2	82.4			
21	85.1	85.9	89.9	91.4	91.5	89.5	95.9	7.88	26.2
	89.3	90.5	93.1	100.7	101.4	100.7			
	104.6	110.2	111.3	108.8	106.9	100.7			
	97.3	93.4	90.5	88.8	89.5	89.4			
22	90.0	92.5	91.3	92.7	93.5	.0	92.0	1.22	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
23	.0	.0	.0	.0	.0	.0	71.3	11.72	.0
	.0	.0	.0	.0	.0	87.4			
	90.9	91.4	77.2	72.1	70.1	71.0			
	58.1	58.9	59.4	67.5	64.4	58.4			
24	63.0	63.7	63.4	65.0	67.3	69.9	78.9	16.86	51.6
	78.5	85.7	96.9	106.1	110.3	110.5			
	106.2	101.0	88.0	78.2	72.6	72.8			
	70.8	70.6	70.5	58.9	61.3	62.1			

NOVEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	72.2	73.5	74.5	77.3	78.2	80.4	96.0	18.08	60.5
	81.9	82.5	84.9	90.6	99.4	111.4			
	123.2	129.5	132.7	125.9	112.2	102.8			
	103.2	103.5	91.9	91.0	90.9	89.9			
26	90.6	90.8	88.8	90.5	88.7	87.4	80.8	11.09	35.1
	86.9	84.6	84.7	90.8	95.8	97.2			
	92.0	86.0	75.9	68.3	70.4	70.5			
	71.6	71.7	66.8	62.8	62.1	65.0			
27	66.0	67.6	68.9	68.1	68.4	68.1	86.5	14.91	43.7
	69.8	73.4	78.9	86.1	91.6	94.8			
	98.7	103.5	104.9	106.4	110.5	107.7			
	100.2	102.0	89.3	82.2	84.6	82.5			
28	80.0	80.1	80.7	81.1	80.7	81.2	86.1	7.90	30.0
	84.1	82.9	86.9	89.5	89.8	90.3			
	89.5	92.0	100.5	107.3	103.2	87.9			
	83.4	80.4	80.3	79.4	77.3	77.9			
29	78.2	77.2	77.5	79.4	78.9	79.6	91.5	11.90	38.7
	82.7	83.1	87.2	90.2	93.8	96.2			
	100.3	100.9	103.8	111.5	116.0	114.0			
	103.6	96.6	90.1	87.5	87.2	79.3			
30	70.7	84.8	92.1	92.7	87.3	85.9	90.5	12.42	48.3
	84.8	82.9	84.4	86.2	88.6	91.2			
	96.2	106.2	115.5	114.9	107.5	105.2			
	98.8	90.6	86.0	78.1	73.2	67.3			

HOURLY MEAN
DURING THE MONTH

76.9	77.7	79.5	80.2	81.1	80.4
81.2	82.0	84.4	89.3	94.2	98.9
104.5	109.3	109.1	104.9	100.9	95.1
89.1	84.6	80.2	77.1	75.3	74.6

MONTHLY MEAN 87.8

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

DECEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	74.7	83.7	83.5	83.8	85.6	84.5	88.3	12.30	40.0
	80.3	82.1	81.8	84.7	89.9	97.6			
	110.4	113.4	113.1	105.2	101.9	97.4			
	86.7	78.8	74.4	76.5	75.1	73.4			
2	72.1	74.3	78.2	80.6	81.4	80.9	90.5	14.50	47.0
	80.3	81.4	83.3	86.2	95.7	103.4			
	112.6	119.1	118.3	115.9	109.4	99.5			
	89.5	86.6	86.4	81.3	78.2	78.4			
3	81.0	83.7	84.5	85.3	87.1	87.9	89.6	12.10	41.5
	87.7	86.6	86.1	91.0	93.4	92.7			
	101.6	108.9	111.2	114.1	111.3	98.4			
	84.8	75.2	76.3	74.0	72.6	74.7			
4	74.5	78.2	77.0	78.2	80.0	81.1	91.9	15.41	47.8
	82.4	83.5	84.4	91.9	97.6	106.0			
	114.1	118.3	122.3	121.3	113.5	101.3			
	91.9	86.1	82.6	80.6	79.2	79.7			
5	79.5	80.3	81.8	82.3	81.7	82.4	93.0	12.47	36.7
	84.0	82.9	83.9	86.4	94.2	102.2			
	109.0	116.2	116.2	114.6	111.8	107.3			
	96.5	86.3	87.1	89.2	89.1	87.1			
6	87.4	88.5	88.6	89.6	91.3	91.7	96.7	10.20	37.0
	94.0	93.1	94.5	100.3	105.4	107.4			
	113.6	118.4	115.7	107.8	105.9	97.3			
	87.8	84.8	81.4	84.3	93.7	98.9			
7	96.4	96.9	100.7	101.3	103.6	102.8	97.1	16.34	61.2
	100.0	104.6	107.0	112.3	108.9	109.2			
	114.3	118.1	122.7	112.5	98.0	83.8			
	74.4	77.8	81.3	74.5	61.5	66.9			
8	69.8	75.0	74.7	74.9	76.6	86.2	96.1	22.16	67.8
	82.1	82.5	83.7	90.4	101.7	114.8			
	125.3	134.9	136.7	137.6	129.8	114.7			
	102.4	92.7	83.4	78.3	79.2	79.0			

DECEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	80.8	82.3	83.4	85.2	86.8	89.8	95.4	13.50	40.8
	92.2	87.9	84.6	85.9	93.6	99.9			
	111.6	119.7	121.5	118.3	117.9	111.4			
	102.3	94.8	89.1	83.5	85.5	81.6			
10	81.8	81.8	79.9	78.8	80.6	80.6	93.3	17.21	.0
	83.7	82.4	83.0	85.5	92.8	103.6			
	122.1	132.7	129.1	124.5	.0	.0			
	98.7	94.0	89.6	83.9	81.5	81.3			
11	81.0	81.7	83.9	85.2	85.2	86.0	98.3	17.73	49.8
	86.5	85.5	86.3	92.6	98.1	105.0			
	117.5	124.9	130.0	130.8	130.8	123.6			
	109.9	96.6	88.8	83.6	82.3	83.9			
12	85.3	85.5	86.3	89.4	88.5	88.1	99.5	13.97	42.0
	89.1	89.3	90.5	97.4	106.4	115.8			
	122.1	127.3	125.3	122.2	113.2	104.5			
	104.4	100.0	93.5	88.6	87.8	87.3			
13	.0	.0	.0	.0	.0	.0	84.5	4.69	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	78.3	77.9	87.3	90.2	87.2	86.2			
14	77.8	76.6	78.9	81.2	80.8	76.5	84.4	7.57	23.3
	78.6	79.1	81.8	83.4	87.4	91.4			
	93.4	95.5	93.0	93.5	96.7	92.6			
	94.6	89.8	79.9	73.5	73.4	77.0			
15	77.2	79.4	81.5	81.1	77.4	86.2	92.5	13.30	39.0
	81.4	80.2	84.6	93.5	102.9	110.3			
	112.7	116.3	112.1	112.4	109.7	102.5			
	96.2	90.8	88.0	81.0	80.6	82.5			
16	87.2	87.5	86.6	85.8	84.6	85.5	91.7	9.42	33.6
	87.2	90.7	92.1	98.4	96.5	101.9			
	107.9	99.3	91.7	104.5	106.9	104.1			
	97.2	92.8	84.3	75.2	76.7	74.3			

DECEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	74.6	76.8	62.7	64.1	69.1	72.0	75.5	10.58	38.8
	69.7	69.6	73.4	77.4	80.1	82.1			
	86.8	96.5	96.7	90.2	89.3	81.4			
	75.7	72.1	70.2	64.3	59.2	57.9			
18	61.8	65.8	71.6	71.2	71.2	71.1	79.5	12.18	46.0
	71.8	74.1	75.1	80.1	83.9	84.6			
	83.7	90.2	101.1	107.7	105.8	94.6			
	82.5	74.6	73.2	71.4	70.0	70.1			
19	70.9	72.1	74.7	76.4	78.8	80.6	86.8	17.87	57.0
	82.3	81.6	81.8	91.3	101.7	109.6			
	115.6	119.2	117.1	113.2	103.0	95.2			
	86.6	67.8	63.5	62.1	67.2	69.9			
20	73.1	74.9	75.8	77.4	78.4	80.0	89.0	15.33	.0
	80.6	80.4	82.1	88.7	93.9	103.0			
	108.7	118.7	118.8	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
21	.0	.0	.0	.0	79.5	79.8	84.9	10.09	.0
	83.1	82.2	82.1	84.2	84.0	82.4			
	85.5	93.7	104.5	111.8	102.2	86.3			
	76.1	75.7	74.6	75.8	77.8	77.0			
22	78.6	79.0	79.7	80.2	80.0	80.6	94.4	14.69	42.6
	82.5	83.6	86.7	92.7	97.1	101.4			
	108.8	108.7	115.2	121.3	120.6	116.6			
	110.3	102.1	93.9	83.6	81.9	81.3			
23	82.5	83.5	85.4	84.7	84.0	87.0	90.0	7.60	31.5
	92.1	91.5	90.7	95.9	96.6	93.1			
	91.4	94.0	102.1	108.8	100.2	95.2			
	92.5	89.8	82.2	77.2	78.2	81.1			
24	83.0	83.6	85.2	85.2	83.8	84.0	93.0	12.74	.0
	83.3	81.9	84.9	94.1	98.9	100.3			
	105.8	111.5	118.6	115.0	112.7	106.5			
	.0	.0	80.9	80.9	82.4	83.0			

DECEMBER 1964

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	81.9	82.2	83.1	84.1	84.3	83.9	95.8	18.02	61.7
	83.4	83.6	86.1	90.8	94.3	95.8			
	101.0	106.6	115.4	121.8	130.2	133.0			
	127.4	109.9	97.5	77.8	72.7	71.3			
26	67.7	76.4	79.1	82.0	84.9	85.2	84.1	6.35	31.8
	85.2	84.3	83.3	86.1	85.4	83.8			
	81.9	84.7	93.4	99.5	95.4	91.8			
	83.9	82.2	76.6	79.7	82.6	82.6			
27	83.1	84.6	83.4	83.8	84.0	84.4	96.5	15.55	.0
	85.9	.0	.0	.0	.0	.0			
	108.8	114.2	125.0	126.4	116.7	111.9			
	106.7	95.5	91.9	85.6	81.0	81.6			
28	82.0	80.9	83.1	84.8	86.2	87.2	96.3	12.28	.0
	86.9	87.0	87.3	90.4	93.9	96.9			
	100.8	109.5	116.0	113.1	114.3	117.9			
	115.2	105.6	99.7	.0	87.8	89.1			
29	83.6	82.9	86.6	86.7	89.3	89.6	95.9	12.98	46.2
	86.3	88.1	90.9	94.5	94.1	97.5			
	103.7	112.3	119.2	125.1	121.8	109.7			
	102.5	99.0	94.5	85.4	80.4	78.8			
30	.0	.0	.0	.0	.0	.0	107.8	18.93	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	132.4	128.1			
	124.3	117.8	101.9	89.5	85.7	82.9			
31	86.8	87.9	85.4	86.9	89.0	88.3	87.0	2.97	.0
	86.1	84.9	85.2	89.0	92.3	94.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	87.0	83.1	83.6	83.1			

HOURLY MEAN
DURING THE MONTH

79.1	80.9	81.6	82.5	83.2	84.3
84.4	84.4	85.6	90.5	95.0	99.5
106.1	111.5	114.4	114.4	111.2	104.0
95.7	89.2	84.7	79.8	79.1	79.4

MONTHLY MEAN 91.6

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JANUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	82.3	84.0	88.1	91.5	93.1	94.3	100.2	17.11	.0
	96.7	96.9	96.2	.0	.0	.0			
	114.6	123.2	133.5	139.2	125.3	110.5			
	102.2	95.6	91.6	85.3	81.0	79.6			
2	82.3	85.2	89.1	90.9	95.4	101.7	89.8	8.79	44.7
	93.4	92.1	91.5	90.5	88.8	91.3			
	93.2	89.4	93.2	102.3	111.6	96.3			
	82.3	85.7	83.7	81.5	76.6	66.9			
3	72.4	78.8	77.8	79.3	79.4	80.3	88.9	13.38	52.6
	82.1	80.3	81.7	82.9	80.9	82.7			
	87.9	99.7	111.4	112.6	125.0	111.3			
	101.0	89.4	85.6	85.7	83.6	82.2			
4	80.8	82.2	84.0	84.6	83.4	85.8	92.6	12.80	44.1
	87.1	86.0	87.4	92.4	96.7	92.1			
	93.8	102.1	111.9	117.2	122.1	117.7			
	103.2	90.6	83.3	80.6	78.0	79.8			
5	84.2	82.5	84.8	87.1	87.3	87.5	96.0	14.61	47.3
	86.7	87.2	88.7	93.9	97.5	100.9			
	110.1	117.0	124.3	125.0	119.9	113.1			
	104.6	98.0	87.7	79.7	78.4	77.7			
6	78.0	78.3	79.9	81.3	82.7	83.3	90.5	10.28	33.8
	84.6	85.5	84.1	86.1	88.5	92.8			
	99.1	102.6	106.8	110.1	111.8	104.8			
	100.2	94.5	86.8	83.3	83.7	84.0			
7	86.1	86.8	88.6	91.7	91.7	90.5	101.9	16.98	48.4
	90.6	90.5	91.9	100.4	111.9	119.7			
	128.3	133.5	132.3	129.9	126.4	113.6			
	101.4	92.5	87.5	86.7	85.1	87.6			
8	73.4	69.6	.0	86.9	84.3	80.9	76.0	8.99	.0
	75.1	71.0	67.1	72.9	74.1	76.7			
	79.5	86.2	85.6	87.5	89.9	86.4			
	80.6	73.5	63.5	59.7	60.4	63.9			

JANUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	68.0	70.6	72.4	73.6	72.2	73.6	81.5	15.59	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	110.7	110.9	108.0			
	94.3	83.5	76.7	68.0	68.8	71.4			
10	72.7	72.8	75.7	76.7	76.1	76.6	86.0	14.40	48.6
	75.9	75.5	79.9	82.7	82.9	86.1			
	92.5	100.7	112.2	120.3	117.3	104.0			
	93.1	87.1	81.7	77.4	71.7	71.8			
11	71.5	75.0	76.1	76.3	75.6	77.4	88.4	14.04	.0
	75.6	76.5	77.9	80.0	80.9	85.1			
	93.1	100.2	106.5	113.0	114.8	111.4			
	106.7	100.5	94.5	84.7	.0	79.3			
12	79.3	78.6	78.8	79.7	80.9	86.6	85.4	9.78	40.1
	92.2	92.9	93.7	92.4	90.1	95.7			
	89.3	85.8	86.2	95.2	103.3	93.5			
	92.8	87.3	76.3	63.3	66.7	68.5			
13	70.2	66.6	60.5	65.3	70.5	72.2	80.5	15.10	.0
	74.0	75.7	77.0	76.1	78.9	82.4			
	89.3	100.7	103.8	115.1	118.2	.0			
	.0	77.9	74.4	74.7	73.4	73.8			
14	71.4	73.9	75.9	75.3	79.7	82.2	85.4	9.27	.0
	81.9	80.5	81.3	84.7	83.5	88.3			
	92.2	102.1	102.6	103.4	99.7	.0			
	92.3	90.7	85.5	81.9	77.5	78.5			
15	78.9	81.5	81.9	83.1	86.4	83.6	85.2	6.13	.0
	83.8	84.5	85.1	84.9	86.2	85.5			
	.0	86.6	90.4	93.6	96.9	99.4			
	.0	.0	83.4	76.4	72.6	.0			
16	.0	.0	.0	.0	.0	.0	85.2	16.41	.0
	.0	.0	.0	.0	.0	.0			
	86.2	90.4	96.0	108.4	112.0	.0			
	92.7	83.7	76.3	69.6	64.8	57.6			

JANUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	.0	.0	.0	.0	.0	.0	62.0	8.54	.0
	.0	.0	.0	.0	.0	.0			
	68.0	68.8	54.4	57.8	62.7	50.5			
	44.3	.0	66.9	68.2	71.6	68.6			
18	69.2	69.4	68.6	70.1	70.3	73.7	78.3	8.72	.0
	74.9	78.5	77.7	.0	.0	.0			
	84.6	93.2	94.2	89.4	89.1	90.1			
	87.5	78.2	74.0	70.3	71.0	70.4			
19	71.3	70.8	72.0	76.8	75.1	75.8	85.9	15.71	.0
	75.0	75.2	77.3	84.8	87.1	90.4			
	99.6	107.8	114.4	118.2	114.8	.0			
	104.1	90.9	80.1	74.1	71.4	68.1			
20	68.3	69.2	71.0	72.5	74.5	77.3	91.8	17.95	53.2
	78.3	80.4	80.8	86.1	96.3	101.9			
	112.9	116.5	119.7	120.1	121.6	119.0			
	101.1	90.9	98.2	89.6	78.4	77.6			
21	64.4	66.4	53.9	62.6	73.9	72.7	89.8	20.87	.0
	75.6	75.9	78.1	86.9	89.5	98.3			
	110.5	122.3	120.0	120.7	121.0	119.3			
	.0	107.1	95.0	86.3	83.4	82.4			
22	78.6	81.5	83.6	80.7	81.1	78.2	77.6	13.20	.0
	90.7	93.0	83.3	86.9	86.5	92.8			
	.0	.0	.0	.0	.0	.0			
	.0	.0	57.9	54.0	55.9	56.2			
23	60.1	65.8	68.0	65.1	68.6	90.7	76.8	10.27	35.8
	74.2	74.6	75.1	78.5	78.8	84.1			
	84.5	82.3	91.4	95.9	93.9	89.7			
	79.2	74.1	72.1	68.1	63.6	63.8			
24	63.7	64.9	65.9	66.9	68.8	69.5	81.1	15.18	.0
	69.6	68.7	69.6	76.1	78.1	79.9			
	84.2	88.2	.0	107.2	116.6	111.8			
	101.5	93.4	85.6	80.9	78.6	76.2			

JANUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	74.9	74.1	74.0	.0	.0	.0	87.9	10.81	.0
	.0	.0	.0	.0	.0	77.7			
	81.5	87.1	90.9	.0	.0	.0			
	108.2	103.7	98.8	92.7	89.8	89.5			
26	88.5	89.0	89.0	89.4	90.2	91.3	101.4	14.08	.0
	93.0	96.4	105.7	108.8	104.1	103.7			
	103.3	109.2	.0	132.7	135.7	126.3			
	112.4	103.6	95.7	89.5	88.7	86.1			
27	85.1	87.6	90.9	83.7	84.2	97.2	98.3	15.20	.0
	92.7	91.0	89.8	89.2	87.2	86.9			
	93.8	.0	125.2	130.2	131.9	120.2			
	106.5	97.3	90.5	.0	.0	.0			
28	72.0	76.2	74.7	.0	.0	.0	92.4	18.20	.0
	.0	.0	.0	.0	.0	.0			
	.0	111.8	112.7	111.7	116.9	112.8			
	106.0	96.2	84.0	76.4	71.0	70.5			
29	73.3	76.1	73.7	99.5	108.5	.0	83.0	11.22	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	90.8			
	86.8	84.4	82.1	77.1	74.6	69.7			
30	66.9	68.8	70.9	72.3	71.7	73.5	84.7	14.20	44.6
	75.0	74.7	75.0	71.4	69.6	76.3			
	85.5	93.5	103.2	108.4	111.5	105.6			
	100.6	95.3	88.5	80.1	97.9	97.3			
31	73.7	74.3	74.4	74.0	74.7	75.3	83.5	11.43	35.6
	75.1	76.4	79.1	80.3	79.9	83.5			
	88.1	97.6	104.1	106.9	109.3	101.6			
	89.3	84.4	75.7	73.7	76.5	76.2			

HOURLY MEAN
DURING THE MONTH

74.5	75.9	76.6	79.3	80.8	82.0
82.1	82.4	83.0	85.6	86.9	89.8
94.1	99.9	104.9	110.1	111.8	104.3
95.4	90.4	82.7	77.3	75.7	75.0

MONTHLY MEAN 87.1

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

FEBRUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	76.2	78.1	80.7	78.6	78.4	76.5	89.6	16.00	51.2
	75.8	77.7	78.6	84.4	87.3	91.7			
	99.1	104.7	118.8	126.6	122.8	112.8			
	97.2	94.1	83.2	76.6	75.9	75.4			
2	74.4	75.8	76.2	76.5	78.6	78.4	95.8	18.03	55.1
	79.3	81.0	83.5	93.1	103.4	108.2			
	109.8	117.2	127.7	129.5	121.8	114.8			
	114.0	107.8	96.0	85.5	84.2	82.9			
3	80.9	81.5	80.8	84.0	84.7	85.0	93.8	18.54	.0
	87.2	88.7	85.6	89.3	93.1	105.3			
	111.9	125.4	130.6	129.3	120.1	105.9			
	.0	95.3	87.1	75.2	65.0	64.3			
4	70.9	73.3	80.6	77.9	77.7	83.1	83.6	12.36	47.5
	81.0	77.9	77.3	78.9	84.7	88.2			
	96.1	103.4	112.6	107.3	94.4	90.9			
	93.5	82.7	75.5	67.4	65.9	65.1			
5	65.4	66.2	67.2	69.4	75.5	77.8	99.4	30.80	93.8
	78.1	77.0	77.3	82.8	96.3	127.7			
	134.0	141.6	153.2	159.2	149.0	132.7			
	119.9	107.0	93.4	86.6	75.8	72.0			
6	73.9	79.2	80.6	83.6	84.6	83.9	89.9	12.77	50.0
	85.3	85.1	86.1	85.5	83.0	82.6			
	89.7	96.9	116.1	123.9	107.7	100.4			
	105.3	102.8	89.1	76.6	80.1	76.5			
7	71.6	67.2	60.1	50.6	48.0	49.8	51.0	15.55	53.0
	71.0	66.9	70.6	64.6	59.4	52.4			
	44.8	48.0	56.2	65.3	57.6	42.1			
	27.0	20.3	18.6	26.6	38.3	48.1			
8	49.8	53.1	56.6	62.0	65.6	66.3	76.4	21.95	73.7
	66.9	65.8	69.4	78.2	89.9	97.3			
	98.6	102.4	104.6	106.3	106.2	113.3			
	93.1	86.0	59.1	40.6	39.6	62.2			

FEBRUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	60.3	57.3	60.5	62.6	61.2	63.7	80.6	17.96	.0
	70.9	71.9	78.4	90.5	90.0	90.9			
	96.7	98.8	.0	122.3	114.6	99.7			
	97.0	84.0	77.8	69.9	66.6	68.4			
10	68.6	69.0	69.4	78.4	80.3	81.1	81.4	11.47	37.6
	79.5	78.8	77.9	77.7	74.9	81.9			
	81.6	88.1	92.7	98.3	103.2	103.8			
	101.8	91.4	75.3	63.6	66.2	68.3			
11	71.5	71.9	73.3	75.2	73.9	71.0	77.9	5.89	.0
	71.9	72.2	78.3	81.2	81.4	80.3			
	78.6	.0	.0	.0	.0	.0			
	90.7	89.2	86.1	81.6	78.4	73.5			
12	68.9	73.1	73.7	73.5	76.5	75.0	78.1	5.05	.0
	73.2	73.3	75.2	76.2	76.4	75.0			
	73.9	79.7	82.2	87.0	87.6	85.7			
	83.6	84.0	81.9	.0	80.6	79.9			
13	79.5	81.7	81.0	81.2	.0	.0	84.8	7.44	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	103.0	97.5			
	86.6	85.7	83.4	81.5	80.3	76.5			
14	78.6	80.0	82.5	81.7	83.4	83.0	83.9	5.93	.0
	83.9	83.3	.0	.0	.0	.0			
	.0	.0	.0	90.1	91.6	92.7			
	90.2	90.5	87.8	80.7	78.1	68.9			
15	.0	.0	.0	.0	.0	.0	89.5	12.61	.0
	.0	.0	.0	.0	94.5	98.0			
	106.9	107.3	102.1	96.0	89.0	96.1			
	91.5	82.8	75.4	71.7	69.2	72.5			
16	72.2	70.3	71.1	73.2	80.0	76.1	83.4	10.19	35.2
	76.7	76.2	79.0	82.5	86.2	87.0			
	88.8	92.3	93.4	101.1	105.0	99.9			
	95.1	90.2	84.0	78.6	74.2	69.7			

FEBRUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	66.4	71.6	76.1	79.2	80.3	80.4	89.5	19.44	.0
	.0	.0	.0	.0	.0	92.7			
	99.0	110.1	118.3	123.0	124.0	115.0			
	76.8	67.4	71.7	80.8	78.1	.0			
18	.0	81.1	82.0	81.1	81.6	81.5	94.9	20.07	.0
	79.7	80.9	81.0	80.7	89.2	94.6			
	106.1	121.1	133.5	138.9	131.1	120.5			
	107.2	97.9	85.8	77.0	74.1	77.2			
19	77.8	78.9	78.1	79.5	82.9	85.6	88.7	14.43	.0
	85.7	85.5	.0	.0	.0	86.0			
	95.2	107.7	114.5	119.5	114.2	101.8			
	93.5	83.4	74.3	71.2	71.8	74.7			
20	74.0	77.6	81.6	83.3	85.4	82.5	90.7	12.04	49.3
	79.7	81.2	82.4	87.8	89.4	86.3			
	87.2	90.6	97.4	113.9	123.3	115.0			
	102.9	96.6	94.0	84.6	87.9	91.8			
21	84.9	86.3	87.8	76.6	80.6	84.6	86.7	8.53	33.3
	82.6	84.1	87.0	86.2	82.2	79.7			
	88.2	88.8	99.0	106.4	102.0	97.1			
	99.3	90.3	79.8	79.4	74.0	73.1			
22	72.4	72.6	75.7	74.6	74.1	73.9	89.3	17.17	47.1
	73.6	74.3	75.3	78.0	81.6	86.2			
	92.2	102.9	113.7	119.5	116.5	114.1			
	118.5	113.9	96.6	81.2	78.2	83.1			
23	80.5	80.4	83.2	84.8	82.3	82.0	78.2	20.64	.0
	84.1	87.9	.0	.0	.0	101.3			
	103.6	110.0	107.1	99.4	87.4	67.6			
	45.5	57.8	60.1	50.1	41.4	45.4			

FEBRUARY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
24	43.6 .0 77.1 72.8	.0 .0 80.9 76.4	.0 .0 73.9 75.1	.0 .0 75.9 69.6	.0 72.7 75.0 63.7	.0 73.6 70.9 55.4	70.4	9.27	.0
25	.0 .0 77.7 86.4	.0 .0 87.0 80.8	.0 .0 74.0 72.7	.0 .0 83.4 62.7	.0 .0 98.9 61.8	.0 71.1 96.5 61.9	78.1	11.83	.0
26	63.5 65.3 78.7 83.2	66.7 .0 89.9 75.7	71.0 .0 92.6 69.1	69.7 .0 88.8 64.0	67.7 67.7 91.5 64.3	65.1 70.5 91.4 .0	74.8	10.44	.0
27	.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	.00	.0
28	.0 .0 .0 82.1	.0 .0 .0 71.7	.0 .0 .0 66.7	.0 .0 96.2 68.7	.0 .0 90.2 68.4	.0 .0 87.7 69.2	77.9	10.63	.0

HOURLY MEAN
DURING THE MONTH

70.7	73.6	75.2	75.5	76.5	76.6
77.7	78.5	79.0	82.2	84.2	87.9
92.3	99.8	105.2	108.3	104.9	98.7
90.6	85.4	77.8	71.3	69.7	70.2

MONTHLY MEAN 83.7

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

MARCH 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	69.1	.0	.0	.0	.0	.0	70.1	5.63	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	81.5	72.6	65.7	65.7	66.2			
2	67.4	67.1	.0	.0	.0	.0	95.3	18.26	.0
	.0	.0	.0	.0	.0	.0			
	98.1	104.2	111.9	110.7	108.0	.0			
	.0	.0	.0	.0	.0	.0			
3	.0	.0	.0	.0	.0	.0	48.0	21.71	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	91.0	69.6			
	47.6	45.2	50.3	33.0	26.0	21.0			
4	16.1	16.2	17.7	19.0	25.6	40.2	45.2	15.77	.0
	39.8	44.9	45.5	52.9	56.3	54.2			
	61.3	49.8	53.3	.0	.0	67.1			
	65.2	58.6	53.4	52.1	51.6	54.1			
5	54.0	56.1	58.1	61.5	63.9	62.5	69.5	10.48	.0
	66.0	68.5	70.3	70.5	62.7	61.5			
	63.4	73.5	81.2	92.5	93.9	86.0			
	78.7	73.2	68.4	67.0	65.8	.0			
6	.0	.0	.0	.0	.0	.0	72.2	13.91	.0
	.0	.0	.0	.0	72.6	72.7			
	78.6	86.0	97.3	.0	.0	91.5			
	78.0	62.6	53.9	56.0	60.5	57.1			
7	62.3	.0	.0	.0	.0	.0	72.9	8.25	.0
	.0	.0	.0	.0	75.2	73.4			
	75.5	82.2	81.2	81.0	82.2	80.0			
	79.2	73.2	67.6	61.0	60.1	59.9			
8	59.7	59.3	59.3	62.0	64.1	.0	78.2	14.83	.0
	.0	.0	.0	.0	.0	80.1			
	88.6	96.5	103.2	103.4	97.0	89.2			
	83.1	78.0	75.2	71.7	69.1	68.6			

MARCH 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	68.6	73.7	79.2	83.0	86.0	84.8	82.6	10.46	35.3
	82.7	81.4	79.4	79.4	81.5	85.1			
	92.7	99.4	99.6	99.4	95.9	94.0			
	87.8	80.8	72.5	67.1	64.6	64.3			
10	65.4	68.9	72.0	72.8	72.5	73.1	81.5	11.39	37.4
	74.0	73.9	74.6	76.1	76.9	80.2			
	86.3	97.0	100.6	97.6	102.8	102.6			
	96.4	87.7	79.7	75.1	75.1	75.9			
11	76.9	75.8	75.5	72.9	72.8	71.1	78.4	8.27	27.5
	69.8	72.6	74.7	74.9	76.1	77.5			
	85.0	92.4	96.2	97.3	92.1	86.4			
	80.7	75.8	72.5	72.2	70.1	71.5			
12	71.7	72.9	73.5	74.8	75.0	75.0	82.6	18.28	66.0
	73.7	75.4	76.7	79.3	83.4	88.7			
	109.0	119.4	121.3	114.6	107.7	94.9			
	78.0	62.6	55.3	60.5	70.1	69.6			
13	65.1	73.5	74.2	75.7	75.2	78.4	80.9	11.03	40.1
	82.7	74.8	76.9	73.7	78.1	84.8			
	91.8	96.1	88.6	94.2	101.0	104.3			
	93.5	82.3	77.5	69.1	65.0	64.3			
14	63.8	64.6	66.7	67.7	69.6	69.7	76.5	18.37	64.9
	69.7	68.8	70.9	80.1	93.1	105.8			
	88.5	111.9	107.5	101.2	94.6	89.3			
	78.5	70.6	57.8	47.4	47.1	50.5			
15	54.9	61.3	65.2	71.2	74.0	69.3	75.9	13.54	.0
	74.0	73.0	69.9	76.4	78.5	78.8			
	83.7	96.5	103.7	102.5	100.7	87.5			
	.0	62.9	63.3	66.4	66.9	65.8			
16	65.0	65.3	64.5	65.4	64.5	64.5	75.0	12.16	38.8
	65.3	65.7	66.5	70.9	74.1	77.7			
	84.1	95.2	103.3	101.8	94.2	85.4			
	78.0	72.0	70.8	67.2	67.3	70.9			

HOURS OF DAY

DAY	RECORDS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
17	72.8 76.4 105.2 72.8	72.8 75.9 118.8 64.4	73.8 76.9 128.9 64.9	76.2 76.9 126.1 65.7	74.8 81.9 111.7 66.3	74.7 91.0 90.2 65.2	83.5	19.36	64.5
18	64.5 69.9 109.8 88.0	65.8 69.8 120.7 79.2	68.6 71.3 122.2 75.0	69.6 73.2 126.5 73.3	69.6 81.2 119.3 72.4	69.2 95.1 101.8 72.7	84.5	20.12	62.0
19	71.9 77.0 98.0 .0	73.5 77.1 107.5 .0	75.8 76.3 113.2 .0	78.3 77.0 109.9 .0	78.8 84.2 106.7 .0	77.9 91.0 103.3 .0	87.6	14.13	.0
20	.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	.00	.0
21	.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	.00	.0
22	.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	.00	.0
23	.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	.00	.0
24	.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	.00	.0

MARCH 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	58.6	4.34	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	68.2	57.8	55.9	56.5	56.2	57.1			
30	59.3	60.5	61.5	62.8	62.4	63.5	79.8	18.42	.0
	65.9	68.9	70.4	73.5	79.4	86.2			
	96.3	106.2	112.9	119.0	109.0	96.9			
	85.1	76.1	73.5	.0	.0	66.7			
31	67.4	68.8	71.1	69.0	69.4	69.5	77.2	13.48	41.3
	68.3	67.9	66.2	68.0	70.9	75.9			
	86.4	98.8	105.6	105.9	103.9	93.4			
	80.3	74.6	72.0	68.2	66.0	64.6			

HOURLY MEAN
DURING THE MONTH

62.9	64.5	66.0	67.6	68.6	69.6
70.4	70.6	71.1	73.5	76.8	81.1
88.6	97.5	101.7	104.9	100.7	90.2
78.8	70.9	66.6	62.9	62.4	62.4

MONTHLY MEAN 75.7

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

APRIL 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	63.2	62.2	66.4	67.3	72.6	71.2	81.7	18.35	58.5
	68.9	69.7	70.8	72.9	77.8	86.3			
	98.5	113.8	120.8	117.0	113.9	102.2			
	87.2	79.1	74.9	70.1	66.6	67.8			
2	67.7	67.2	67.0	67.5	66.5	67.4	77.7	13.67	42.0
	63.8	67.4	69.9	70.9	73.7	79.1			
	83.4	94.3	102.9	107.8	105.9	98.4			
	85.9	76.8	71.9	69.8	67.9	68.3			
3	68.1	67.7	72.0	74.0	73.7	75.6	80.4	9.59	32.8
	74.9	75.6	75.9	77.4	79.6	85.3			
	89.5	93.5	92.8	95.4	100.4	96.9			
	87.9	81.3	76.4	71.8	71.2	72.2			
4	72.8	73.9	76.7	74.4	75.9	80.1	78.8	7.83	26.5
	75.6	71.2	76.9	88.8	90.0	84.6			
	86.7	93.1	87.9	83.6	86.9	86.4			
	80.9	74.0	68.5	66.7	66.9	67.7			
5	71.7	70.6	68.8	65.5	68.1	66.5	73.1	10.70	.0
	65.1	66.1	67.2	69.1	70.0	74.1			
	80.6	88.9	93.8	93.5	90.8	88.7			
	.0	.0	67.2	59.3	60.3	63.3			
6	64.5	64.4	66.7	69.4	75.2	80.6	83.1	13.16	43.1
	81.2	79.7	79.1	81.0	83.7	92.2			
	105.2	107.5	107.5	106.3	96.8	87.9			
	82.2	83.4	82.2	76.1	73.8	67.1			
7	62.8	57.3	52.8	52.0	59.6	70.4	69.0	13.61	48.7
	63.2	65.8	65.5	67.4	76.6	87.8			
	95.7	95.7	89.2	87.6	80.7	76.1			
	63.3	55.6	54.0	56.5	57.4	58.5			
8	63.9	66.2	77.5	75.5	85.7	80.9	78.2	13.58	44.1
	101.2	95.4	103.1	104.8	90.2	100.3			
	74.7	80.1	69.1	70.8	68.7	68.8			
	69.1	69.0	60.7	62.1	66.1	66.9			

APRIL 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	62.4	55.4	47.0	54.0	59.0	50.6	65.2	10.24	42.1
	56.6	57.0	62.5	63.3	65.1	66.8			
	68.3	78.8	82.4	90.0	86.6	72.6			
	62.7	60.7	65.5	67.6	63.0	52.8			
10	53.0	54.9	58.9	64.3	68.7	62.7	70.1	11.51	40.1
	60.6	60.3	61.4	62.7	62.8	65.7			
	71.6	80.8	88.2	93.2	92.9	88.5			
	81.9	76.4	72.7	68.3	66.4	65.7			
11	65.8	65.6	68.6	69.7	70.5	71.9	73.8	24.76	89.9
	74.1	77.1	78.3	81.1	85.5	92.5			
	103.9	112.8	116.8	120.1	96.6	78.7			
	52.4	30.2	34.7	39.1	41.6	44.3			
12	53.9	54.8	55.6	54.9	63.3	61.3	67.5	10.84	34.1
	60.0	62.5	64.3	66.8	70.7	74.8			
	81.1	85.6	87.5	87.9	85.2	77.7			
	67.6	62.2	59.2	62.2	61.9	59.6			
13	53.9	62.2	70.2	70.4	66.5	64.8	71.4	6.82	29.9
	65.3	66.0	71.1	74.3	74.2	75.6			
	77.8	79.0	83.3	88.8	81.6	73.0			
	68.1	66.8	67.9	69.4	68.9	70.2			
14	68.9	67.7	66.2	71.3	74.6	75.6	83.7	10.64	33.9
	75.2	72.6	72.1	77.8	86.9	93.7			
	97.1	97.8	94.0	100.1	95.3	84.8			
	94.3	91.0	91.8	88.8	85.9	85.7			
15	61.1	60.6	60.1	61.7	70.8	71.8	73.6	14.13	44.6
	69.6	70.5	71.1	72.2	76.3	83.8			
	90.8	96.8	101.7	104.8	95.8	77.1			
	68.4	60.3	60.3	60.6	60.2	60.8			
16	64.1	65.6	67.5	68.3	69.9	77.1	81.1	17.32	55.7
	73.1	75.6	75.6	79.3	88.1	97.0			
	105.7	112.9	119.7	116.0	100.8	80.7			
	63.4	65.2	67.3	68.7	69.6	70.4			
17	72.0	71.5	71.6	71.7	72.1	71.8	85.9	19.35	68.4
	74.6	77.3	78.7	83.4	88.3	89.0			
	93.2	119.3	128.1	131.2	124.9	93.9			
	62.7	79.1	80.8	75.4	73.3	78.4			

APRIL 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
18	76.9	68.2	66.1	45.0	23.6	8.0	4.9	30.02	97.8
	10.4	34.8	- 3.0	- 11.4	- 16.8	- 20.9			
	- 15.5	- 17.1	- 12.5	- 20.0	- 17.8	- 6.7			
	- 16.3	- 14.4	- 11.4	- 10.1	- 7.5	- 15.1			
19	- 22.6	- 15.2	- 10.3	- 11.8	- 10.8	- 8.4	19.6	24.92	88.1
	1.3	19.1	21.3	23.5	29.2	36.4			
	46.7	57.1	65.6	61.3	46.2	40.8			
	29.1	25.4	8.8	7.5	11.6	19.1			
20	22.4	20.3	23.4	31.5	29.2	31.4	37.6	10.92	38.7
	32.0	33.2	34.3	37.9	42.6	49.2			
	50.9	52.2	59.1	56.6	53.3	47.7			
	38.4	34.5	32.0	29.0	30.5	31.3			
21	33.4	32.8	34.8	34.9	34.7	34.7	45.2	10.97	36.1
	35.8	38.3	41.2	43.9	47.4	55.1			
	63.2	67.8	68.9	63.2	53.7	50.3			
	45.9	43.8	40.3	40.1	40.7	40.9			
22	41.0	41.7	41.8	42.2	40.7	43.1	55.9	15.05	50.1
	46.2	46.0	46.9	50.2	52.9	61.3			
	69.8	82.6	90.7	82.2	77.7	69.4			
	65.4	58.5	53.5	48.9	42.4	46.8			
23	49.6	50.1	50.4	50.4	49.8	50.9	65.5	16.57	.0
	43.3	52.1	54.0	61.0	64.8	67.1			
	73.5	78.6	82.4	85.5	101.3	89.9			
	85.4	.0	.0	.0	.0	.0			
24	.0	.0	.0	.0	.0	.0	62.8	9.93	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	77.1	78.1	74.1	67.6			
	60.5	57.4	52.5	51.4	53.7	56.0			
25	.0	.0	.0	.0	.0	.0	93.4	8.17	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	90.4	74.4	91.1			
	87.4	99.7	99.6	100.7	100.3	96.7			
26	54.4	59.2	56.2	56.3	57.2	59.7	63.4	8.99	34.2
	62.3	64.6	61.8	65.3	66.6	68.8			
	73.1	79.4	83.8	82.3	71.0	58.4			
	49.6	54.9	57.9	59.0	57.6	59.0			

APRIL 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
27	58.5	58.5	58.4	58.8	.0	.0	69.1	15.93	.0
	.0	.0	.0	.0	.0	86.0			
	91.5	95.5	95.1	90.1	81.9	64.6			
	60.2	54.3	54.7	54.8	55.7	55.3			
28	55.4	55.7	56.7	58.5	62.1	61.5	67.9	11.07	.0
	61.5	62.5	64.2	67.1	69.8	74.4			
	77.4	88.1	90.5	88.9	82.2	69.3			
	61.1	.0	.0	.0	59.6	59.5			
29	59.6	58.9	59.5	.0	61.6	63.0	75.4	14.36	.0
	65.3	67.0	68.7	70.6	74.2	81.0			
	87.8	93.9	103.0	110.8	98.5	87.2			
	75.1	67.2	69.4	70.8	71.8	70.4			
30	67.6	63.7	67.2	67.7	64.5	60.1	69.7	10.48	37.1
	60.1	62.2	62.5	66.5	71.0	78.7			
	85.5	87.5	95.9	88.6	73.5	67.4			
	61.9	59.5	58.9	60.8	80.3	61.5			

HOURLY MEAN
DURING THE MONTH

57.0	56.5	57.8	58.1	59.4	59.8
60.5	62.6	62.8	65.5	68.2	73.8
79.0	85.6	88.5	88.4	82.5	74.3
65.1	61.2	59.7	58.8	59.2	58.7

MONTHLY MEAN 67.1

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

MAY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	61.9	.0	.0	61.3	61.3	63.1	70.2	9.69	.0
	64.6	65.1	66.7	66.3	74.5	83.2			
	84.0	84.6	89.0	89.5	77.9	70.4			
	70.1	63.9	61.2	61.9	61.9	61.5			
2	61.7	61.8	62.8	64.6	64.7	64.8	72.9	13.09	42.7
	66.2	68.1	69.9	71.8	79.2	88.1			
	97.1	100.9	100.1	92.5	82.8	73.8			
	67.9	65.8	63.6	62.6	61.4	58.2			
3	55.7	54.3	55.2	58.6	60.6	62.5	68.9	10.46	41.7
	64.4	64.6	62.5	64.4	70.1	73.9			
	75.6	79.3	88.3	96.0	88.0	75.8			
	69.6	66.8	65.7	67.2	66.6	66.8			
4	65.0	64.3	64.9	64.3	65.5	68.0	73.7	8.41	30.9
	69.6	70.3	71.7	72.4	70.4	68.2			
	71.9	82.2	90.3	95.1	91.4	78.5			
	75.5	76.9	74.2	71.2	69.6	76.7			
5	64.8	49.1	26.7	31.0	37.4	51.8	46.4	11.61	43.6
	40.8	41.1	50.4	47.3	43.5	50.4			
	58.1	42.3	70.2	66.9	55.1	63.3			
	39.8	41.4	35.5	34.7	37.9	33.9			
6	32.5	34.0	44.4	47.2	47.9	50.7	52.7	8.92	.0
	51.9	52.8	56.1	60.6	64.1	64.5			
	61.8	63.7	71.0	.0	49.9	47.2			
	52.9	54.3	52.3	49.7	48.9	53.4			
7	54.6	51.6	50.1	57.1	60.9	61.4	60.9	9.03	32.6
	59.6	59.3	58.9	62.1	66.0	71.1			
	76.1	80.3	80.6	73.0	60.6	48.7			
	48.0	54.2	57.2	56.7	56.6	58.0			
8	58.1	59.2	57.2	57.6	56.6	58.6	57.1	18.52	70.3
	58.9	59.8	63.2	63.7	65.0	63.2			
	68.0	74.4	80.0	75.5	74.1	73.2			
	67.4	58.4	38.1	21.5	10.0	9.7			

MAY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	24.5	28.4	31.2	32.3	37.9	50.7	50.9	14.67	.0
	45.5	46.7	49.3	52.2	59.0	66.2			
	68.2	70.1	73.9	69.3	60.8	49.9			
	50.1	.0	.0	.0	.0	.0			
10	.0	.0	.0	.0	.0	.0	56.5	10.23	.0
	.0	.0	.0	.0	.0	68.8			
	71.3	69.1	67.7	67.1	57.8	47.7			
	44.0	44.6	47.6	48.4	50.9	49.9			
11	51.3	51.9	53.0	54.4	54.9	55.5	61.5	8.55	29.9
	56.4	57.7	58.8	61.4	66.1	69.8			
	74.1	75.5	79.0	81.2	69.8	58.1			
	57.0	60.8	58.1	55.7	57.8	58.3			
12	57.7	55.3	52.6	60.4	51.1	51.4	59.6	6.23	22.5
	52.3	53.9	57.4	60.0	62.3	66.3			
	66.7	67.2	70.9	73.6	68.7	61.5			
	55.7	58.0	59.0	56.6	55.0	56.2			
13	56.7	56.8	56.6	57.4	59.4	60.7	70.7	14.42	43.2
	62.1	62.0	62.8	64.8	70.1	77.4			
	83.6	90.0	99.8	96.6	92.2	93.3			
	86.1	67.0	61.6	58.2	61.2	61.2			
14	59.7	58.9	61.1	62.2	65.0	67.2	74.0	15.54	49.8
	67.7	69.1	70.7	72.6	80.0	90.5			
	59.6	106.9	107.9	99.1	88.4	74.6			
	65.8	63.8	58.1	59.7	63.2	65.4			
15	67.0	72.3	74.9	76.6	76.1	76.0	79.0	11.22	39.1
	76.8	76.5	78.2	79.2	86.7	92.7			
	96.0	100.5	103.7	96.7	85.6	73.9			
	64.6	67.3	69.0	66.3	68.4	70.5			
16	73.9	78.4	78.3	85.0	78.6	78.0	67.2	12.53	36.0
	74.4	72.7	65.9	67.0	71.3	77.9			
	83.7	79.4	75.5	65.8	56.4	49.8			
	49.1	49.3	51.2	49.0	49.9	51.2			

MAY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	50.7	50.1	53.6	55.4	58.8	54.1	63.1	9.45	33.1
	54.7	58.1	58.8	63.4	70.7	77.9			
	83.2	79.9	77.9	74.5	70.2	64.3			
	60.0	56.2	59.3	58.5	61.8	61.9			
18	60.6	60.1	60.5	61.3	65.4	63.5	67.0	9.94	33.5
	64.3	65.1	64.9	67.1	72.7	78.1			
	84.0	86.3	86.2	84.3	76.1	60.1			
	52.8	54.3	60.1	60.5	57.8	61.9			
19	61.1	61.4	61.0	61.2	63.9	65.4	73.5	11.09	.0
	66.7	66.3	66.3	69.9	75.8	82.4			
	86.7	88.4	92.8	95.7	86.9	74.2			
	72.1	71.7	.0	.0	.0	.0			
20	.0	.0	.0	.0	.0	.0	87.2	8.82	.0
	.0	.0	.0	.0	.0	.0			
	.0	96.4	96.6	97.9	88.5	86.4			
	94.2	91.5	83.7	78.2	73.1	72.8			
21	68.4	67.6	69.0	71.1	72.2	71.5	69.1	14.52	51.3
	74.7	74.1	73.1	75.1	81.4	90.6			
	90.7	92.2	88.1	79.6	66.3	66.5			
	56.2	50.2	47.2	40.9	46.7	46.2			
22	44.1	46.4	48.9	47.6	51.7	55.4	65.0	13.10	45.9
	59.8	59.1	61.1	63.0	68.7	73.0			
	75.6	77.2	83.8	90.0	85.9	86.1			
	76.2	61.9	57.4	59.7	63.1	65.0			
23	64.1	61.4	61.5	59.3	59.6	59.2	65.2	7.39	28.0
	58.7	61.1	62.7	68.6	68.6	70.4			
	72.2	75.6	79.1	82.4	77.2	67.5			
	63.1	58.9	57.3	54.4	59.2	62.9			
24	64.0	66.4	67.6	66.6	69.7	67.8	70.1	6.62	26.1
	67.4	70.3	71.0	69.5	70.7	73.6			
	79.7	85.7	84.0	78.2	78.0	71.0			
	66.4	66.4	65.0	59.5	61.0	63.1			

MAY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	66.3	66.4	66.6	68.4	71.0	69.9	71.4	5.55	18.8
	69.9	71.2	70.1	70.8	76.4	80.4			
	80.1	78.2	83.5	81.8	73.5	69.4			
	68.2	67.3	66.7	64.7	65.0	66.9			
26	66.6	66.9	70.1	69.7	69.9	72.8	76.7	9.50	30.9
	74.0	73.7	73.8	76.2	85.3	90.2			
	95.0	96.5	95.8	89.0	76.3	65.6			
	66.3	72.6	75.1	72.8	73.4	73.2			
27	71.8	65.8	55.9	62.8	66.7	70.7	76.5	12.39	45.3
	72.3	71.7	72.2	75.1	82.5	93.5			
	99.8	101.2	100.8	94.4	83.7	78.2			
	72.7	69.8	66.7	68.7	70.7	69.5			
28	69.0	68.0	67.1	67.7	66.8	69.1	71.7	8.27	32.9
	69.1	69.8	70.5	71.6	78.1	88.0			
	76.3	87.4	90.7	85.9	72.5	65.6			
	65.8	57.8	63.4	65.4	68.3	67.4			
29	67.1	66.6	65.9	68.9	69.9	68.9	72.8	8.70	31.0
	69.5	70.7	74.1	75.1	78.3	82.7			
	85.1	88.9	90.9	89.5	76.1	62.5			
	59.9	61.4	65.3	69.1	71.5	70.3			
30	69.8	69.7	69.9	67.4	67.8	70.6	79.0	10.54	34.5
	71.6	75.5	77.2	79.8	82.5	88.5			
	94.8	99.8	101.9	99.3	88.6	79.8			
	76.6	73.7	72.5	72.1	73.0	72.9			
31	71.9	70.5	70.3	71.7	71.9	71.1	78.1	9.96	32.1
	71.3	71.3	74.8	74.2	79.8	88.3			
	93.7	100.2	101.1	95.9	84.8	76.3			
	72.3	71.8	72.5	79.1	70.7	68.9			

HOURLY MEAN
DURING THE MONTH

60.0	59.4	59.2	61.0	62.2	63.8
64.0	64.7	66.0	67.8	72.4	77.7
81.1	83.9	87.1	85.2	75.6	68.2
64.1	62.6	60.8	59.4	59.8	60.5

MONTHLY MEAN 67.8

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JUNE 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	68.4	70.8	71.9	70.9	71.6	73.0	79.6	12.13	41.9
	75.5	75.4	76.4	82.4	90.1	96.3			
	99.9	101.4	104.2	95.3	85.0	80.5			
	81.4	79.6	72.2	62.8	62.3	64.1			
2	64.0	66.3	69.7	70.2	71.6	73.8	76.3	16.36	56.1
	73.1	74.1	74.7	78.2	86.5	98.5			
	106.5	107.6	101.5	98.2	90.7	79.1			
	67.1	58.7	52.4	51.5	57.3	59.6			
3	62.8	65.8	66.0	64.3	64.3	64.7	72.2	12.36	50.0
	65.1	66.4	68.1	68.4	73.7	79.6			
	84.6	95.7	101.1	93.7	87.1	77.2			
	74.8	73.6	69.7	57.4	51.1	57.4			
4	63.3	65.1	66.7	71.7	75.2	75.8	64.9	10.86	43.5
	72.8	70.6	71.7	71.1	71.1	65.8			
	75.2	84.0	76.5	64.3	62.7	55.7			
	58.9	55.2	49.9	40.5	42.7	50.8			
5	59.6	52.9	47.7	46.6	56.7	61.2	68.4	15.71	53.9
	56.1	56.3	60.2	64.4	75.2	86.4			
	97.6	100.5	99.3	92.5	81.6	66.6			
	61.0	62.6	63.8	63.3	65.0	64.5			
6	64.1	63.1	62.0	61.7	64.6	61.7	68.9	5.89	19.6
	63.4	64.3	58.2	64.7	70.0	71.9			
	75.3	74.1	65.8	74.2	75.3	69.8			
	62.3	72.4	77.7	76.2	75.9	77.3			
7	75.7	77.1	74.1	76.4	76.3	76.9	69.8	12.03	41.5
	79.4	78.0	62.1	65.3	72.5	81.7			
	86.8	85.8	86.4	79.0	60.4	45.3			
	47.1	53.3	57.0	57.7	61.0	61.1			
8	60.7	62.3	60.8	59.3	59.1	59.1	65.0	17.56	65.5
	62.8	64.9	65.6	67.1	75.3	82.6			
	90.5	90.7	91.5	89.3	85.1	71.1			
	59.2	51.4	56.7	41.9	27.0	26.0			

JUNE 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	30.9	39.2	42.4	46.4	55.3	53.9	50.0	8.98	38.0
	51.4	51.8	50.2	51.4	54.6	56.6			
	61.8	65.7	68.9	62.0	52.8	51.1			
	44.2	43.2	40.1	41.7	41.9	42.3			
10	45.3	50.2	50.8	51.1	56.3	59.4	60.4	8.73	30.5
	60.4	62.9	64.9	68.4	73.1	75.7			
	72.7	74.8	71.3	68.5	58.1	51.2			
	50.8	53.2	55.9	57.2	58.4	59.1			
11	58.4	59.3	60.1	61.7	61.5	62.2	69.6	9.75	30.8
	62.4	64.0	67.5	69.6	73.9	82.0			
	86.9	89.2	87.3	79.3	81.4	75.2			
	67.2	69.6	67.3	62.9	59.0	61.2			
12	62.3	65.2	64.9	65.6	66.0	67.6	72.8	10.54	30.5
	69.1	68.3	70.9	74.3	79.4	86.9			
	92.8	91.7	91.6	91.5	82.6	72.6			
	67.6	64.8	64.2	63.3	62.3	62.6			
13	63.0	63.3	65.4	67.0	67.3	67.8	79.4	13.02	41.8
	69.0	69.6	72.3	75.7	85.7	91.3			
	96.3	100.6	104.4	104.8	97.2	85.4			
	80.2	79.5	77.5	74.1	73.4	73.4			
14	73.3	72.8	72.5	69.9	72.5	71.6	78.1	17.78	62.9
	72.2	75.1	77.4	76.0	82.0	91.1			
	93.9	98.9	104.6	105.7	103.0	96.5			
	89.2	87.3	51.2	42.8	45.1	50.6			
15	58.1	59.0	58.1	57.7	61.7	67.1	63.6	25.07	90.5
	69.4	72.5	72.9	72.4	80.9	107.3			
	107.8	111.8	87.1	75.8	73.2	54.3			
	33.2	21.5	21.6	21.3	38.6	42.7			
16	51.1	.0	.0	46.4	58.5	66.8	3.9	54.47	.0
	54.3	49.7	69.0	56.3	39.1	31.7			
	18.7	7.6	.0	2.4	14.0	33.1			
	- 37.0	- 54.3	- 99.9	- 91.4	- 72.2	- 67.1			

JUNE 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	- 20.4	- 12.4	4.5	13.5	17.1	28.8	33.1	19.73	77.5
	27.9	33.7	33.0	34.6	39.5	45.8			
	52.2	52.3	55.0	57.0	49.7	49.1			
	43.2	41.1	44.6	38.5	27.7	38.2			
18	12.8	24.8	28.2	24.7	33.0	35.5	44.4	13.73	52.0
	33.6	35.6	37.9	44.4	52.0	55.8			
	63.6	64.8	63.2	61.9	54.8	45.7			
	46.3	50.6	57.4	52.6	45.8	39.5			
19	38.6	37.7	39.0	41.9	42.6	44.2	52.8	10.15	35.7
	46.1	49.4	51.5	51.6	53.3	57.5			
	60.8	67.3	73.3	72.9	69.4	61.1			
	54.2	50.5	50.2	50.7	52.0	50.8			
20	50.7	49.2	49.1	50.6	51.8	52.2	57.1	9.63	31.0
	53.0	56.2	56.4	58.8	63.9	69.3			
	72.4	78.5	77.3	70.9	63.3	51.9			
	49.0	47.5	49.7	49.7	49.2	49.3			
21	50.3	48.9	50.5	51.4	54.7	56.1	61.2	9.23	34.1
	56.7	57.4	57.3	58.6	60.9	66.9			
	72.9	81.0	83.1	76.7	70.9	64.2			
	59.6	57.7	57.2	58.6	58.8	57.0			
22	54.9	55.0	54.6	56.3	59.6	58.2	62.4	9.63	30.2
	60.1	59.6	59.9	59.4	59.7	73.9			
	80.1	82.0	82.9	79.8	70.0	62.1			
	56.4	52.7	56.2	55.1	53.9	54.8			
23	52.0	55.2	56.3	57.2	59.5	59.2	64.5	8.97	34.0
	59.4	60.5	62.6	64.3	67.8	73.1			
	75.9	83.7	85.9	81.1	69.3	63.7			
	63.5	60.9	60.2	60.2	58.9	57.3			
24	59.3	59.8	61.9	62.7	61.6	62.6	70.7	9.32	31.4
	62.8	62.8	64.2	66.7	72.1	80.9			
	88.0	90.7	84.7	78.1	83.2	77.9			
	75.3	74.1	68.4	66.8	66.7	65.2			

JUNE 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
25	64.1 71.0 87.2 47.3	43.6 70.9 89.2 41.5	63.3 72.0 93.4 51.2	64.6 75.2 83.8 54.3	65.9 85.2 60.2 57.8	66.8 87.3 49.7 59.8	67.7	14.02	52.0
26	48.8 57.7 71.8 62.1	45.8 54.1 72.1 58.0	50.9 54.4 70.7 58.5	52.6 57.0 69.6 57.8	55.4 61.8 68.7 55.6	58.8 66.0 64.6 52.0	59.4	7.32	26.3
27	52.6 56.7 72.6 51.1	51.3 56.7 72.8 54.6	48.6 57.6 73.9 53.7	54.2 57.3 77.2 53.8	58.2 62.2 70.4 56.4	60.7 68.6 54.6 57.8	59.7	8.06	28.5
28	59.2 61.8 82.6 60.6	57.5 60.6 84.8 53.3	56.8 60.6 80.0 53.2	58.1 62.4 68.9 55.7	62.3 69.3 70.4 57.6	62.5 77.6 69.7 59.3	64.4	8.90	31.6
29	62.9 58.6 82.6 73.6	65.8 61.6 87.2 62.1	70.2 68.8 91.9 53.8	73.8 70.4 87.8 44.0	63.9 68.9 80.6 41.5	70.1 77.0 77.6 46.0	68.4	13.12	50.4
30	46.2 56.5 83.2 65.5	49.8 59.2 77.4 73.7	53.3 59.8 79.2 62.3	59.3 59.0 77.2 42.0	59.2 62.2 74.5 45.1	55.3 74.1 63.9 46.5	61.8	11.50	41.1

HOURLY MEAN
DURING THE MONTH

53.1	54.6	55.9	56.9	59.4	61.1
60.6	61.4	62.6	64.2	68.7	75.3
79.8	82.1	84.0	77.3	70.6	61.8
57.4	55.0	51.8	48.8	49.2	50.6

MONTHLY MEAN 62.4

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JULY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	54.3	44.6	48.9	51.4	56.4	62.1	58.8	10.77	38.3
	56.5	54.8	58.1	60.5	62.9	69.9			
	73.1	74.1	79.5	77.6	73.1	62.7			
	56.6	49.2	45.0	41.2	50.4	47.7			
2	44.6	46.9	51.3	56.5	54.2	52.4	59.1	11.98	40.6
	54.3	54.4	56.7	57.7	66.3	72.2			
	73.2	78.8	85.2	82.2	74.7	60.8			
	51.1	51.2	52.8	48.7	46.9	44.9			
3	52.9	52.7	61.2	56.0	54.1	53.4	62.4	10.97	33.9
	52.8	57.0	59.4	60.7	65.6	72.1			
	79.3	82.0	80.6	77.6	76.7	76.8			
	67.2	58.0	52.6	51.6	49.3	48.1			
4	47.7	47.9	48.4	51.7	54.0	56.8	61.0	7.85	29.8
	56.9	58.2	61.2	61.9	63.3	67.2			
	74.0	77.5	75.4	67.3	63.6	60.2			
	61.6	64.0	66.7	61.4	59.2	58.1			
5	58.9	61.5	63.8	64.8	65.7	67.1	70.9	8.28	30.8
	66.4	68.1	67.8	68.0	75.1	81.5			
	85.3	86.6	89.7	85.8	72.0	66.0			
	67.7	67.9	67.5	67.5	68.2	68.1			
6	65.4	60.9	58.2	53.5	52.3	77.8	56.7	13.48	.0
	80.7	80.2	71.3	61.7	.0	58.3			
	62.8	63.8	64.9	64.8	45.8	39.9			
	41.8	38.1	40.5	39.2	39.4	43.5			
7	45.9	38.7	37.8	36.6	44.7	47.4	50.4	7.15	24.2
	45.4	45.7	47.4	48.3	49.6	49.8			
	53.1	56.4	60.6	60.6	59.5	57.5			
	60.8	60.4	54.6	48.3	49.1	50.6			
8	49.0	48.9	46.8	54.1	52.7	56.4	62.4	18.90	65.5
	60.2	63.1	65.9	65.3	71.5	82.1			
	90.0	101.8	94.8	83.9	84.8	69.1			
	51.4	46.8	39.7	39.6	36.3	38.3			

JULY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	35.7	36.7	44.2	53.9	50.3	48.8	61.3	13.67	51.7
	50.3	50.0	51.3	57.2	62.1	71.2			
	80.6	84.3	87.4	79.1	70.4	67.2			
	63.6	59.7	63.7	66.5	65.4	69.9			
10	60.2	59.9	51.2	37.1	34.1	36.1	54.8	10.79	41.3
	45.7	47.8	55.3	50.4	59.0	67.8			
	67.9	75.4	74.6	63.1	62.6	57.6			
	55.8	52.1	50.4	49.5	49.7	49.0			
11	49.0	52.7	50.2	50.4	50.1	50.1	55.6	8.03	25.4
	49.3	50.6	51.2	51.9	55.7	60.9			
	67.7	71.6	73.0	71.6	68.0	52.8			
	47.6	50.6	52.9	51.6	52.2	52.6			
12	54.9	56.5	57.9	58.6	58.6	58.4	72.0	13.77	43.7
	59.0	60.0	61.6	63.5	67.9	73.6			
	81.2	88.5	92.5	92.0	98.7	92.9			
	87.0	84.2	72.2	67.2	70.7	68.6			
13	67.3	68.9	67.0	65.3	66.0	66.0	69.8	9.32	34.0
	66.4	65.9	65.1	67.6	77.2	82.1			
	82.2	80.4	86.0	89.4	81.9	72.8			
	64.3	56.1	55.4	58.5	61.4	61.4			
14	55.9	55.9	51.6	49.9	53.4	59.7	57.7	6.43	.0
	58.5	58.4	59.8	62.9	67.6	71.3			
	70.9	.0	.0	.0	.0	.0			
	.0	52.6	53.2	52.1	54.0	51.7			
15	55.2	60.1	58.7	62.1	62.8	63.4	60.3	10.25	40.1
	61.9	63.2	65.4	62.8	68.6	71.9			
	73.3	77.0	79.7	72.6	56.5	50.0			
	48.2	50.9	51.7	46.8	45.9	39.5			
16	42.7	47.4	48.0	49.4	50.4	51.6	56.3	6.89	24.7
	53.7	55.4	57.8	59.7	60.8	61.8			
	65.7	66.5	67.3	67.4	66.9	59.8			
	52.4	52.0	53.6	52.9	52.6	54.4			

JULY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	55.9	57.1	58.2	59.8	60.4	60.8	69.2	10.51	34.6
	60.9	61.1	62.6	64.2	67.7	76.1			
	83.3	90.5	90.4	85.4	82.7	77.8			
	74.6	69.8	65.6	65.9	65.5	64.1			
18	63.3	63.1	63.6	63.9	64.8	66.2	65.4	1.97	.0
	66.9	67.8	68.7	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
19	.0	.0	.0	.0	.0	.0	36.3	4.21	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	43.0	32.1	28.4	32.3			
	34.7	39.7	39.0	39.4	38.3	35.8			
20	39.6	43.3	46.3	48.7	49.3	51.2	53.8	13.18	47.4
	52.6	54.5	55.2	56.1	61.0	65.0			
	69.8	77.8	80.8	77.1	66.7	57.6			
	48.2	41.6	38.5	33.4	37.7	40.0			
21	40.1	41.9	50.7	48.9	53.9	53.6	62.6	12.04	42.8
	52.6	54.3	56.2	57.2	61.5	70.2			
	78.4	82.9	82.1	77.3	76.5	75.7			
	72.8	65.6	66.8	63.6	60.3	60.2			
22	61.1	59.4	57.3	57.4	57.6	57.1	65.7	6.40	20.2
	59.2	64.8	66.7	66.5	66.6	67.4			
	71.7	75.9	74.0	77.3	72.1	68.6			
	64.9	65.0	73.1	73.9	63.0	57.1			
23	65.3	61.3	59.2	59.2	60.8	70.4	58.7	8.71	33.9
	61.8	57.4	57.7	58.5	63.4	71.2			
	72.3	75.3	63.1	56.6	53.7	47.3			
	44.5	41.3	46.3	47.1	55.6	58.2			
24	58.9	57.0	52.9	60.3	59.5	63.4	62.3	4.73	18.1
	61.8	60.1	58.4	61.2	57.3	64.1			
	67.7	69.5	70.0	71.0	69.4	66.6			
	66.3	63.5	61.7	58.0	58.8	58.6			

JULY 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	56.7	54.1	54.3	49.9	50.0	51.6	61.3	10.61	35.0
	52.6	53.2	56.0	60.2	67.4	75.2			
	80.4	84.9	84.4	75.2	65.2	59.8			
	54.5	52.3	57.1	58.9	58.8	59.1			
26	58.3	58.2	58.6	59.7	59.0	63.1	68.5	12.19	38.3
	60.4	60.5	62.3	64.2	67.7	71.9			
	80.0	89.9	96.4	96.1	88.2	76.3			
	66.1	64.1	63.8	61.9	58.7	59.0			
27	58.9	61.8	63.7	62.1	60.2	61.5	70.1	16.95	58.2
	67.7	70.9	71.5	74.5	80.9	88.5			
	92.4	99.2	106.7	97.4	88.3	69.0			
	56.1	52.0	48.4	51.8	50.2	48.6			
28	47.5	45.7	45.8	56.9	70.4	63.4	50.6	10.55	35.5
	52.4	50.4	46.7	42.6	46.4	52.3			
	55.6	62.9	69.5	68.7	57.7	50.6			
	46.4	36.5	36.3	35.0	35.4	40.0			
29	39.6	42.8	46.4	48.1	54.3	52.1	51.7	10.36	42.7
	62.7	58.3	56.1	55.9	55.6	60.4			
	65.8	65.9	69.7	60.7	56.9	53.8			
	44.3	26.9	35.2	42.1	42.5	44.1			
30	45.8	52.0	47.1	46.9	49.8	50.1	57.1	11.66	38.1
	49.8	51.7	54.0	56.3	61.2	69.1			
	76.6	81.0	83.9	78.0	65.7	54.3			
	50.9	49.2	50.3	45.8	50.7	50.3			
31	47.4	47.2	49.9	52.1	55.1	55.7	56.8	8.29	25.9
	55.1	55.6	56.9	58.7	63.6	68.9			
	71.5	71.6	70.4	69.3	64.5	55.2			
	49.5	45.7	50.6	51.5	49.8	48.7			

HOURLY MEAN
DURING THE MONTH

52.6	52.8	53.3	54.2	55.5	57.6
57.8	58.4	59.5	59.9	64.0	69.4
74.0	78.3	78.5	74.7	68.7	61.8
57.0	53.6	53.5	52.4	52.5	52.3

MONTHLY MEAN 60.2

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

AUGUST 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	47.9	49.6	51.3	55.3	56.1	56.8	61.9	8.52	34.8
	57.9	58.6	60.2	62.0	65.6	66.1			
	69.0	76.4	82.7	76.6	72.6	67.1			
	61.4	57.5	57.2	57.4	60.6	59.3			
2	60.4	62.9	64.3	66.8	.0	.0	47.5	12.08	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	43.4	43.1			
	42.3	37.5	28.3	38.2	41.8	41.1			
3	43.9	41.9	39.6	41.5	43.6	47.2	53.9	10.10	31.7
	50.6	52.1	56.4	61.0	67.9	71.4			
	69.0	69.5	68.7	67.8	58.2	50.3			
	53.7	49.1	46.6	45.6	48.9	47.9			
4	43.8	43.4	43.8	43.6	47.2	51.0	58.5	14.40	48.0
	55.2	56.4	56.6	59.9	66.6	75.5			
	81.4	85.6	91.4	83.5	63.4	58.1			
	55.9	50.4	47.7	45.6	48.5	49.1			
5	51.5	52.7	52.6	56.0	58.3	59.4	62.5	13.23	.0
	61.2	61.8	63.4	64.5	68.1	77.0			
	84.9	94.1	96.7	.0	65.7	57.1			
	49.6	51.9	54.6	50.8	51.6	53.3			
6	53.3	52.4	48.5	50.8	56.4	55.3	60.4	9.85	33.1
	53.6	53.9	56.9	61.0	64.4	71.1			
	75.8	81.6	81.1	77.1	67.5	59.8			
	52.9	50.7	51.8	54.3	59.1	60.3			
7	59.4	59.2	62.2	63.6	63.1	62.3	69.0	12.74	38.2
	65.3	67.7	75.0	77.7	85.3	87.6			
	89.5	90.0	91.0	85.2	76.0	57.5			
	53.2	52.8	56.0	55.8	58.9	61.1			
8	59.2	55.9	62.9	66.3	64.8	65.9	65.3	13.16	48.6
	63.3	62.3	63.5	65.5	72.9	82.7			
	89.4	93.3	90.0	79.2	70.1	58.8			
	52.7	44.6	48.3	49.9	51.8	54.4			

AUGUST 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	55.1	55.1	58.5	62.0	60.3	60.4	61.0	15.56	54.1
	61.9	63.5	66.2	69.3	76.0	80.6			
	88.8	90.0	82.4	75.9	63.7	45.4			
	37.5	35.9	36.7	41.8	46.2	50.4			
10	50.7	50.8	52.3	53.4	52.4	59.4	57.7	5.52	18.2
	59.0	59.4	61.1	62.8	59.8	60.1			
	63.6	67.4	67.2	68.9	62.1	55.6			
	53.8	50.9	52.7	53.9	53.1	53.9			
11	52.3	47.5	42.5	43.1	51.1	55.6	60.2	13.98	45.6
	57.7	59.6	59.7	60.9	68.2	77.6			
	86.9	88.1	87.9	79.2	70.7	57.5			
	50.1	49.5	51.6	51.9	47.9	48.6			
12	53.8	51.6	53.4	52.0	59.8	56.8	62.5	10.56	35.0
	60.5	60.7	62.4	64.7	67.8	72.6			
	78.3	77.3	78.8	80.9	76.3	71.3			
	65.7	57.8	51.0	48.6	45.9	51.2			
13	53.1	55.1	56.1	56.4	56.5	57.2	66.3	12.04	39.6
	56.2	57.7	59.6	61.9	66.0	72.9			
	83.0	87.6	92.7	90.2	84.7	73.4			
	63.0	59.4	62.4	61.1	63.2	61.9			
14	59.8	54.6	48.1	52.3	55.1	52.3	54.3	9.50	30.1
	53.2	51.3	52.1	55.7	59.3	66.2			
	71.1	69.3	70.5	68.7	60.2	49.9			
	41.0	41.2	41.3	42.0	42.8	45.8			
15	48.6	48.9	49.6	52.9	53.8	55.9	59.4	8.69	33.6
	56.5	56.5	58.3	60.2	61.9	63.4			
	66.3	71.8	78.3	75.0	71.3	69.9			
	56.9	44.7	51.1	57.5	56.3	58.8			
16	59.6	54.2	56.3	57.6	58.0	59.1	72.1	14.40	44.1
	59.7	65.8	67.9	76.3	82.0	90.1			
	95.3	98.3	91.1	91.2	91.8	83.0			
	76.3	70.4	69.9	62.1	58.8	55.9			

AUGUST 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	55.1	60.8	59.0	55.9	54.9	51.0	54.0	8.72	33.9
	51.9	51.7	53.8	55.1	59.5	62.7			
	63.2	65.3	69.3	66.9	58.7	48.9			
	38.6	44.8	47.4	44.7	41.2	35.5			
18	34.1	39.4	44.8	48.6	51.2	53.1	57.8	31.41	120.7
	54.6	56.0	56.7	59.3	62.9	65.7			
	68.4	79.2	99.2	117.5	113.5	105.0			
	92.7	43.7	3.1	2.8	19.3	28.3			
19	24.3	19.3	26.5	34.3	40.8	60.9	47.9	19.42	68.0
	55.8	44.2	39.3	40.6	46.3	57.4			
	70.8	82.7	79.8	87.3	77.8	54.5			
	44.4	32.4	27.6	30.7	36.1	34.1			
20	36.3	35.1	39.4	44.6	46.9	44.0	51.2	15.29	53.2
	43.3	45.3	54.1	54.5	51.5	60.1			
	60.8	72.1	86.6	84.9	75.7	56.6			
	40.5	37.3	33.3	34.5	36.4	55.2			
21	40.2	51.0	37.3	48.0	60.4	44.4	52.5	10.08	35.1
	42.9	42.2	45.1	44.1	49.4	60.9			
	64.1	68.5	71.9	72.5	66.6	56.7			
	52.6	52.3	50.3	46.8	45.6	46.3			
22	46.0	45.5	45.5	45.7	46.8	46.9	48.9	10.34	42.6
	47.7	50.0	48.5	48.6	53.6	59.5			
	64.9	72.4	70.6	62.0	51.8	43.2			
	41.9	41.1	39.3	38.2	34.7	29.8			
23	27.8	35.4	39.6	42.0	43.7	45.0	54.1	18.26	60.0
	47.0	49.1	50.6	52.1	57.9	64.0			
	71.6	83.4	87.6	87.8	77.6	73.4			
	65.1	55.4	51.4	28.3	28.8	33.6			
24	38.3	44.1	45.5	44.5	43.5	47.0	49.7	13.64	.0
	48.9	50.9	52.4	52.3	51.8	61.7			
	75.0	84.8	.0	.0	71.9	56.8			
	47.0	42.4	42.1	33.2	32.7	25.6			

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

SEPTEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	49.4	49.3	50.5	49.5	51.1	53.8	59.0	10.38	.0
	56.8	59.8	59.1	61.3	67.2	74.5			
	84.4	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	60.3	15.29	.0
	.0	.0	.0	.0	.0	.0			
	71.8	78.2	81.1	79.2	71.9	66.0			
	55.3	49.1	44.3	42.1	40.6	43.3			
3	46.1	48.7	50.0	50.3	52.4	54.2	61.6	11.08	37.7
	54.6	54.6	57.8	60.9	67.0	72.3			
	77.1	80.9	83.3	80.9	74.6	70.5			
	59.1	55.9	57.9	58.9	58.9	52.1			
4	45.8	39.1	38.5	46.7	49.6	56.6	51.8	15.93	54.0
	57.4	54.4	62.1	70.3	75.4	72.3			
	74.3	74.1	66.3	61.1	59.8	54.8			
	28.3	21.4	28.1	32.7	35.5	39.7			
5	44.3	49.1	51.3	49.9	52.0	50.9	52.2	12.67	51.1
	50.6	54.1	57.4	58.3	61.4	62.5			
	66.7	72.2	73.8	68.6	62.7	52.4			
	36.6	22.7	26.8	38.6	43.7	45.7			
6	51.0	45.5	45.6	52.3	56.3	52.3	56.1	14.50	47.0
	54.6	56.9	56.7	58.8	67.9	76.3			
	81.3	85.6	85.6	75.2	50.8	42.3			
	39.1	38.5	39.7	43.5	45.3	45.4			
7	47.1	50.1	52.6	53.7	52.9	52.4	62.4	18.49	61.9
	58.2	57.9	57.2	59.8	67.4	78.5			
	93.0	103.1	104.3	96.5	73.2	56.4			
	49.3	48.2	50.9	49.2	43.5	42.4			
8	50.0	47.8	51.4	54.7	52.6	51.9	57.5	11.38	40.2
	52.3	54.3	55.4	56.9	59.6	65.7			
	73.6	79.9	80.3	79.5	72.8	59.0			
	45.0	40.1	46.4	49.9	50.7	50.0			

SEPTEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	50.7 54.9 68.8 63.4	51.5 56.2 79.8 56.8	52.7 57.1 84.7 54.6	51.9 58.6 83.2 50.6	51.6 60.7 79.9 48.2	51.8 63.4 74.3 47.2	60.5	11.42	37.5
10	50.9 54.6 83.8 67.6	52.8 57.2 89.7 58.1	54.0 58.7 96.2 54.8	53.5 60.8 101.6 52.8	53.7 67.8 95.5 54.2	53.8 76.8 82.9 55.7	66.1	16.11	50.7
11	57.2 61.5 90.4 62.8	57.8 62.1 100.5 59.4	58.2 61.9 105.5 66.0	58.1 67.5 100.7 62.9	59.7 75.1 84.9 60.8	60.0 82.1 73.7 55.7	70.2	15.13	49.9
12	51.3 55.3 90.7 50.9	45.3 56.8 92.1 53.2	50.3 60.1 89.3 58.1	51.4 64.5 83.8 56.4	49.8 73.6 77.6 57.0	51.4 82.8 61.8 48.2	63.0	14.68	46.8
13	42.3 51.4 86.0 55.3	35.0 52.7 88.0 50.1	41.3 54.1 91.1 50.4	48.7 58.6 86.3 52.8	49.7 63.9 80.3 52.2	50.8 72.8 66.1 51.8	59.7	15.68	56.1
14	50.0 53.1 73.1 47.1	51.3 53.1 79.4 36.0	49.8 53.0 78.4 34.5	51.2 55.1 73.8 38.7	51.2 60.1 69.9 41.7	52.2 65.5 61.1 43.8	55.2	12.47	44.9
15	46.5 44.2 69.3 12.2	44.1 46.8 80.6 12.5	45.5 50.1 80.5 8.2	48.3 49.5 90.4 4.0	47.2 53.2 65.1 17.5	45.2 57.8 36.5 23.3	41.2	28.91	113.7
16	- 27.7 44.7 42.4 21.4	- 30.4 36.0 64.6 18.7	.9 39.5 69.0 21.7	22.8 35.8 49.3 10.5	24.8 29.8 56.2 8.3	37.9 45.3 48.6 19.5	28.7	24.19	99.4

SEPTEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	23.8	35.8	35.3	38.6	41.1	47.9	40.3	13.99	54.0
	48.1	38.8	35.9	40.0	39.7	42.9			
	51.2	64.6	70.8	57.5	56.2	51.8			
	40.6	31.5	17.3	21.5	20.2	16.9			
18	16.8	28.7	32.2	34.2	43.0	37.5	40.0	19.36	71.3
	36.0	38.2	43.9	47.6	53.8	61.6			
	73.7	84.6	71.7	58.5	47.0	38.5			
	26.7	13.3	13.9	27.7	14.7	15.6			
19	27.8	31.1	35.1	41.5	44.4	43.8	41.9	12.29	41.0
	42.8	50.1	49.7	53.1	55.6	54.7			
	54.6	61.6	62.8	56.4	43.5	29.1			
	21.8	25.8	23.9	29.9	32.6	33.8			
20	36.1	38.7	40.2	39.6	39.3	39.5	52.3	16.12	51.0
	39.7	43.1	45.4	50.8	55.8	65.5			
	75.1	87.1	82.8	77.7	73.1	66.9			
	55.8	44.3	40.1	40.4	40.8	37.2			
21	34.4	38.1	41.3	43.4	47.0	49.9	58.4	16.63	60.7
	50.2	51.3	52.1	55.3	61.8	69.3			
	81.4	93.7	95.1	87.7	75.8	65.1			
	54.2	49.4	50.2	52.2	52.8	50.2			
22	50.3	48.9	50.7	49.7	47.5	44.9	60.6	12.11	41.2
	46.8	48.4	51.1	55.7	58.2	62.6			
	70.0	76.8	86.1	84.7	81.3	72.9			
	64.6	59.0	60.1	61.2	61.1	62.6			
23	62.2	59.5	60.2	63.1	64.0	63.8	65.4	16.80	61.0
	62.5	67.3	71.2	76.2	74.1	77.8			
	91.0	99.9	94.1	91.8	71.7	56.6			
	45.6	38.9	43.8	46.7	44.2	44.0			
24	51.4	50.7	51.7	49.1	48.1	54.5	56.9	11.33	37.8
	53.5	53.0	49.4	52.3	55.9	64.3			
	68.2	76.3	73.9	77.7	79.8	71.2			
	59.3	42.9	42.1	48.9	47.2	44.7			

SEPTEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	44.1	51.0	51.6	34.6	35.0	34.1	51.1	14.00	49.2
	35.2	39.7	42.8	49.0	54.1	62.5			
	78.9	83.3	74.8	68.3	65.9	55.1			
	51.0	45.6	43.1	41.4	43.8	41.7			
26	46.4	46.4	41.0	51.4	45.8	41.0	44.4	4.04	.0
	39.3	39.9	40.4	46.8	49.7	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	43.2	7.72	.0
	.0	.0	.0	.0	.0	43.1			
	47.2	51.8	52.8	49.4	51.8	50.3			
	43.1	35.2	32.3	32.4	32.2	39.9			
30	38.4	39.7	38.1	40.6	43.7	41.5	47.6	8.79	27.7
	41.6	41.6	41.3	43.7	44.5	48.6			
	57.3	62.9	65.9	61.9	63.8	59.9			
	50.3	44.2	42.1	43.4	43.5	43.9			

HOURLY MEAN
DURING THE MONTH

41.8	42.5	45.0	47.3	48.2	49.0
50.0	50.9	52.4	55.7	59.7	65.4
73.2	80.4	80.8	76.2	68.7	58.6
46.4	40.4	40.5	41.6	40.6	40.3

MONTHLY MEAN 53.9

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

OCTOBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	46.1	47.3	49.3	52.2	52.7	54.1	60.0	9.59	30.7
	55.1	57.6	60.5	65.4	72.1	76.8			
	76.8	76.7	73.1	69.4	65.9	62.6			
	56.8	56.6	55.1	53.1	55.1	48.8			
2	35.8	40.6	48.4	48.7	61.7	52.7	39.2	13.97	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	52.9	35.3	28.1	10.1	23.6	32.6			
3	37.4	40.0	40.7	40.3	42.4	42.4	54.1	15.53	49.0
	44.0	44.1	44.5	48.7	53.5	62.1			
	73.0	86.4	84.9	82.6	77.5	67.4			
	56.9	49.7	48.2	45.9	43.2	42.1			
4	41.3	41.5	44.0	47.8	48.7	48.4	52.6	10.04	.0
	47.9	46.5	45.5	47.6	46.2	47.1			
	53.8	64.0	69.6	73.9	72.4	64.3			
	54.4	47.7	.0	.0	.0	.0			
5	.0	.0	.0	.0	.0	.0	62.6	12.21	.0
	.0	.0	.0	.0	.0	66.7			
	72.4	70.4	64.7	76.7	81.0	72.6			
	65.1	58.7	52.6	43.7	44.4	44.9			
6	46.7	47.8	49.1	48.7	49.7	50.0	61.0	16.89	51.6
	50.5	48.8	49.7	53.5	59.2	65.3			
	77.0	86.9	97.5	98.3	89.7	79.6			
	65.2	55.9	51.6	48.4	47.4	48.2			
7	50.6	51.2	53.1	53.9	.0	.0	74.5	24.51	.0
	.0	.0	.0	.0	.0	88.9			
	102.0	115.8	122.4	110.8	93.0	71.5			
	65.1	60.5	60.9	55.8	58.1	52.3			
8	49.7	50.6	72.5	76.4	76.0	74.7	65.9	19.00	72.0
	75.2	66.2	59.2	61.5	65.8	65.8			
	76.5	88.3	106.7	102.1	86.2	72.4			
	57.1	44.2	34.7	35.2	40.7	42.6			

OCTOBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	45.1 48.6 75.7 63.0	45.4 48.6 82.3 55.7	46.2 51.7 80.6 52.8	45.7 56.0 80.7 .0	47.4 62.0 78.3 .0	48.8 67.4 72.8 .0	59.7	13.26	.0
10	.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	.00	.0
11	.0 .0 .0 .0	.0 .0 .0 .0	.0 .0 .0 58.8	.0 .0 .0 57.4	.0 .0 .0 54.3	.0 .0 .0 51.3	55.4	2.90	.0
12	42.7 53.1 71.5 65.7	41.4 53.3 78.6 55.1	47.2 54.2 80.4 54.7	53.8 55.7 80.2 54.8	54.1 57.1 80.1 52.4	52.6 62.4 74.0 51.5	59.4	11.61	39.0
13	49.8 60.0 60.7 48.1	50.2 60.8 64.6 36.7	54.2 58.9 73.2 37.6	52.7 57.8 79.4 44.4	49.8 55.1 75.9 44.9	52.7 55.9 67.0 46.3	55.7	10.74	42.7
14	47.2 46.9 56.1 64.1	41.1 48.2 62.2 57.6	38.3 49.4 72.1 51.3	42.2 52.3 .0 47.4	44.9 48.4 73.5 45.5	46.6 52.1 69.8 40.6	52.1	9.86	.0
15	40.6 49.3 62.0 64.6	42.9 49.7 67.5 57.4	45.6 50.8 74.4 52.4	48.2 52.3 81.4 49.5	49.2 52.2 76.6 48.9	48.4 56.6 68.8 48.7	55.7	10.79	40.8
16	49.6 55.6 83.2 68.8	62.1 56.7 89.0 61.9	53.6 56.8 92.2 56.1	56.1 60.4 90.4 51.9	55.8 63.6 85.4 50.7	55.2 72.5 78.5 51.9	64.9	13.66	42.5

OCTOBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	51.9	52.4	53.8	54.6	55.6	56.6	71.6	20.50	64.1
	56.7	57.7	59.1	61.8	66.0	80.8			
	93.9	107.7	114.3	116.0	104.6	88.1			
	76.4	67.8	63.2	60.1	58.9	61.4			
18	63.0	60.1	61.4	63.8	65.6	60.8	66.5	11.86	39.0
	58.9	61.1	59.7	57.5	60.6	65.9			
	73.6	85.4	91.4	92.0	87.8	81.4			
	70.2	59.6	55.3	54.8	53.7	53.1			
19	52.2	53.6	54.5	57.7	56.8	57.6	66.4	15.25	48.8
	56.9	58.7	61.1	63.4	59.9	66.2			
	77.6	88.1	98.8	101.0	95.4	83.7			
	71.1	61.4	56.3	53.6	53.7	54.7			
20	55.0	54.2	56.1	57.2	57.6	57.6	66.1	11.90	36.0
	57.9	60.8	59.7	62.6	65.5	68.2			
	76.6	84.2	87.8	90.2	88.0	80.8			
	74.5	67.0	56.8	56.6	55.4	55.7			
21	56.6	56.7	57.6	58.5	59.0	56.3	67.1	16.38	50.0
	52.9	51.7	54.9	55.3	55.3	69.6			
	81.1	91.0	97.0	101.7	97.4	88.9			
	79.8	68.2	60.0	55.7	52.9	52.8			
22	51.9	57.8	64.8	66.6	69.4	72.2	62.0	17.68	67.8
	72.1	68.1	70.9	76.6	66.5	62.6			
	75.7	84.7	94.8	88.5	73.4	49.4			
	33.9	43.3	47.2	38.7	33.1	27.0			
23	32.5	37.1	41.1	41.6	47.0	48.4	45.0	15.44	57.8
	42.8	36.3	38.0	48.7	63.8	73.3			
	61.0	58.7	63.0	66.8	65.0	49.3			
	46.7	35.1	24.1	15.5	20.0	23.4			
24	24.7	24.0	27.4	37.3	34.6	35.4	50.3	17.80	64.0
	41.7	43.4	47.0	48.6	52.8	60.8			
	73.3	85.2	88.0	77.7	69.5	66.0			
	53.7	48.0	44.0	43.3	42.0	38.5			

OCTOBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	29.7	25.6	28.8	31.6	35.3	42.4	46.4	15.05	51.5
	42.4	41.4	40.9	43.8	43.3	53.4			
	61.6	77.2	73.7	71.5	62.0	61.4			
	56.2	52.1	46.3	34.7	30.6	27.0			
26	32.1	47.3	39.0	44.2	46.0	47.1	54.1	12.54	.0
	47.9	50.3	49.8	50.9	.0	52.5			
	57.6	70.6	75.6	79.6	78.0	70.0			
	63.4	56.3	49.5	46.0	44.1	46.4			
27	60.3	66.9	75.6	81.6	86.0	87.6	61.9	12.38	41.0
	79.8	72.3	68.6	63.0	56.7	49.3			
	46.6	48.3	48.8	47.7	51.1	53.1			
	53.5	54.3	54.9	60.1	60.6	58.8			
28	46.4	48.4	37.0	48.3	51.9	54.5	56.0	13.78	47.3
	57.1	57.4	59.3	63.3	64.8	64.0			
	60.8	74.3	80.2	81.2	76.0	68.0			
	57.4	50.8	39.1	35.8	34.0	35.3			
29	34.7	39.5	39.9	41.6	43.1	42.9	57.7	18.37	54.3
	44.7	45.2	47.3	54.8	60.6	69.2			
	80.4	86.9	86.9	89.0	86.9	78.2			
	70.1	66.0	56.7	45.7	37.1	38.0			
30	41.3	47.5	47.7	44.4	42.8	46.6	55.3	12.47	41.5
	47.8	43.6	43.4	49.0	52.8	57.4			
	61.3	70.9	78.8	82.8	74.6	69.8			
	68.6	62.7	55.8	50.2	45.1	43.2			
31	43.6	42.9	46.8	48.0	49.1	48.4	57.8	20.82	73.8
	49.4	51.8	54.4	59.8	62.3	69.6			
	83.2	95.3	103.5	100.9	81.0	66.6			
	53.3	44.9	35.7	30.8	29.8	35.2			

HOURLY MEAN
DURING THE MONTH

44.9	47.0	49.1	51.6	53.1	53.4
53.7	53.1	53.7	56.6	58.6	64.4
71.6	80.0	84.8	85.7	79.5	70.6
61.3	54.2	49.7	45.7	45.0	44.7

MONTHLY MEAN 58.6

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

NOVEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	40.0	41.9	43.1	44.7	45.5	45.7	58.5	17.86	57.9
	47.2	48.1	48.7	52.4	58.4	68.8			
	79.6	92.8	97.9	90.9	79.2	72.1			
	68.3	60.7	50.8	46.2	41.0	40.0			
2	43.1	40.1	45.6	45.1	49.3	48.6	60.8	19.35	57.9
	49.2	50.3	50.8	56.9	65.8	78.8			
	92.3	98.0	92.0	92.7	87.7	79.6			
	67.0	54.7	43.7	40.2	43.6	45.0			
3	44.3	43.7	44.6	45.7	46.2	46.8	61.3	18.97	55.7
	46.8	46.7	47.9	55.2	61.7	70.8			
	83.9	95.9	99.4	97.1	89.7	79.2			
	70.3	62.3	53.4	48.2	46.5	45.6			
4	46.4	60.1	61.2	61.4	67.3	71.9	75.2	17.87	60.5
	73.7	76.8	80.7	86.3	96.8	106.8			
	93.6	95.5	98.9	100.2	90.8	86.6			
	75.3	65.1	53.9	52.3	52.3	50.7			
5	53.1	53.6	61.7	66.8	63.8	55.9	60.6	28.88	106.1
	53.7	53.1	54.3	63.6	78.8	98.0			
	106.9	101.8	101.7	89.1	80.9	73.6			
	60.6	44.4	24.5	10.2	.8	2.7			
6	7.8	7.1	14.8	17.8	26.8	35.2	42.5	23.65	79.9
	35.3	37.5	35.6	38.8	46.0	65.4			
	78.8	83.9	87.0	79.6	66.5	61.1			
	54.2	37.4	28.6	22.8	22.2	29.7			
7	26.3	19.1	30.1	36.4	38.0	38.6	40.6	9.91	41.0
	39.0	36.0	34.7	37.3	37.5	43.7			
	46.2	51.2	57.0	59.2	60.1	53.5			
	47.2	37.3	32.5	35.0	38.2	41.1			
8	42.8	44.0	44.0	45.6	47.3	48.9	59.3	15.95	49.7
	49.1	51.2	52.6	58.5	62.4	67.7			
	77.7	89.2	91.0	83.6	83.3	73.9			
	63.4	57.6	47.8	47.5	47.9	41.4			

NOVEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	43.1	43.1	44.6	46.3	48.4	50.0	61.2	17.52	53.6
	51.1	50.5	52.6	57.9	67.2	76.0			
	86.2	95.0	96.6	91.2	83.5	72.7			
	64.9	56.8	53.2	48.2	44.9	44.5			
10	49.1	50.9	50.8	50.9	51.7	52.6	65.8	15.47	43.2
	54.1	55.2	58.6	67.1	75.1	86.2			
	90.6	92.3	90.5	83.5	85.5	76.7			
	70.4	66.8	60.2	53.8	50.6	50.1			
11	49.8	50.6	52.3	54.1	55.1	56.8	70.1	19.74	62.5
	57.5	58.9	61.1	65.0	74.3	89.0			
	104.0	112.3	107.0	101.2	91.0	84.4			
	73.2	60.9	56.2	53.2	56.7	57.1			
12	56.5	55.9	56.4	57.1	56.1	54.8	74.3	18.90	58.9
	55.3	55.9	57.8	65.2	69.8	82.7			
	99.3	113.7	107.5	103.4	98.4	91.6			
	87.5	79.7	76.1	72.8	67.7	61.3			
13	57.1	54.9	52.9	53.4	47.4	45.2	55.0	16.15	66.2
	47.7	49.2	48.1	47.3	48.2	49.7			
	59.4	71.3	79.8	85.7	86.8	82.0			
	65.8	52.4	42.1	20.6	30.7	41.6			
14	45.4	45.6	48.0	47.7	50.5	50.0	58.8	12.36	35.8
	50.7	55.8	56.3	61.1	68.0	70.8			
	75.7	78.9	78.9	80.6	79.6	67.4			
	53.5	51.6	52.0	49.7	47.5	44.7			
15	42.9	46.9	46.0	47.7	48.4	48.6	59.8	14.50	47.1
	50.1	51.7	55.7	60.7	67.4	76.2			
	86.7	90.0	88.3	79.9	72.2	66.6			
	56.7	50.6	51.6	51.3	49.6	49.6			
16	49.7	49.9	51.7	50.7	50.4	51.0	68.8	20.24	56.3
	50.8	52.2	55.8	66.0	77.4	90.3			
	101.2	106.0	102.3	100.4	94.5	86.2			
	77.7	69.3	61.1	54.5	50.3	50.8			

NOVEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	50.6 57.3 89.0 74.9	51.5 54.8 92.2 67.8	54.1 59.9 91.5 63.1	53.7 66.0 91.8 58.6	56.3 72.9 86.6 58.0	59.0 80.1 80.9 56.7	67.8	14.09	41.6
18	53.2 67.6 86.2 71.5	49.5 69.1 96.4 63.5	51.0 70.7 98.4 57.0	57.7 71.8 96.0 55.1	62.7 77.1 91.3 57.4	67.2 80.1 80.7 58.8	70.4	14.67	48.8
19	59.7 53.6 .0 .0	61.1 49.7 .0 .0	63.7 58.9 .0 .0	64.1 66.6 .0 .0	54.3 62.7 .0 .0	53.9 59.8 .0 .0	59.0	4.90	.0
20	.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	.00	.0
21	.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	.00	.0
22	.0 .0 .0 55.1	.0 .0 .0 50.3	.0 .0 .0 44.0	.0 .0 .0 39.8	.0 .0 .0 38.3	.0 .0 57.8 38.6	46.3	7.53	.0
23	40.7 44.4 82.7 67.7	42.9 45.1 97.5 57.2	42.1 46.5 98.8 49.6	41.8 51.2 93.1 48.0	41.8 59.6 84.1 50.7	43.4 67.6 75.9 44.7	59.1	19.01	58.1
24	40.6 50.6 56.1 48.0	40.5 53.3 67.6 41.1	42.8 57.9 .0 41.0	48.4 58.4 .0 22.1	48.8 58.6 57.8 23.0	49.4 56.1 .0 23.5	46.9	12.10	.0

NOVEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	23.4	24.2	25.6	26.6	26.6	28.5	37.4	12.16	.0
	29.3	30.6	34.2	39.9	42.3	46.6			
	53.8	59.0	.0	57.8	49.8	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	64.6	21.15	.0
	.0	.0	.0	.0	.0	.0			
	94.9	95.6	94.5	83.7	72.1	58.6			
	51.4	48.3	45.6	44.0	42.1	44.4			
27	42.1	41.6	43.9	48.2	49.1	47.8	50.0	8.08	.0
	46.2	47.6	50.4	55.9	58.8	56.9			
	62.9	67.6	63.2	58.2	54.6	48.9			
	.0	40.5	45.5	42.4	40.0	38.4			
28	42.4	42.7	44.3	47.0	48.3	49.6	50.4	6.07	.0
	50.9	53.0	56.4	60.1	59.9	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	67.0	21.27	.0
	.0	.0	.0	.0	.0	.0			
	86.4	87.8	90.9	93.9	88.5	73.3			
	62.0	54.6	46.4	37.6	39.8	42.3			
30	43.3	45.6	47.6	50.0	53.1	57.9	57.0	24.75	77.3
	58.4	66.6	70.7	83.5	90.8	92.3			
	87.9	87.7	84.7	79.0	74.4	61.3			
	24.8	32.4	20.3	15.0	17.3	23.9			

HOURLY MEAN
DURING THE MONTH

43.7	44.3	46.5	48.4	49.3	50.3
50.8	52.0	54.3	59.7	65.5	73.3
82.5	88.8	91.2	86.7	79.6	72.7
63.0	54.5	48.0	42.8	42.3	42.7

MONTHLY MEAN 59.2

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

DECEMBER 1965

S.JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
1	31.6 36.0 85.4 28.9	33.3 38.2 65.6 16.0	33.8 43.8 44.4 9.0	33.9 50.5 39.0 13.2	35.8 60.9 29.6 1.8	38.2 77.9 31.1 19.1	37.4	19.65	83.6
2	26.0 34.6 50.3 37.0	26.1 34.2 56.3 37.5	25.6 35.7 55.0 32.0	28.5 41.7 48.6 31.6	35.2 43.3 42.8 30.7	35.7 41.6 39.8 31.0	37.5	8.46	30.7
3	.0 .0 .0 46.2	.0 .0 61.1 44.9	.0 .0 61.0 41.7	.0 .0 61.4 39.0	.0 .0 57.6 40.3	.0 .0 50.4 40.7	49.5	8.73	.0
4	42.1 43.7 86.7 50.7	40.5 45.7 100.6 50.3	36.9 48.3 100.6 46.1	39.1 54.4 102.9 49.3	40.9 73.6 74.2 50.2	42.5 82.2 62.1 51.8	59.0	20.76	66.0
5	51.4 62.3 89.8 74.1	53.9 64.2 92.1 72.9	56.2 66.3 89.0 69.6	58.5 70.6 88.4 65.6	58.2 71.9 83.7 64.1	60.9 81.6 76.7 63.2	70.2	11.78	40.6
6	63.2 67.4 87.6 53.3	65.2 65.9 .0 51.6	66.4 70.9 .0 48.4	66.8 72.8 .0 45.2	66.0 69.8 69.8 44.7	66.2 73.8 60.9 44.6	62.9	10.87	.0
7	46.6 50.0 49.0 43.8	46.4 52.2 54.6 49.1	45.6 52.4 48.7 46.3	47.1 55.1 41.0 39.9	47.8 55.8 .0 37.6	47.6 .0 45.3 40.3	47.4	4.80	.0
8	40.1 49.6 74.4 77.0	42.2 54.2 81.9 62.0	41.6 56.8 86.3 60.4	41.4 62.2 87.3 60.4	43.7 63.4 82.3 57.8	48.2 67.0 85.0 49.3	61.4	15.31	47.2

DECEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	44.5	46.9	50.6	51.6	52.3	53.2	48.7	5.49	.0
	52.7	50.5	52.1	54.5	54.5	56.8			
	53.9	49.3	51.1	50.2	50.0	.0			
	45.2	45.0	42.8	38.8	37.5	36.8			
10	40.4	43.1	46.3	47.5	47.8	48.1	43.7	11.21	.0
	47.3	49.5	52.2	53.6	54.7	48.0			
	43.3	49.0	.0	.0	68.4	54.9			
	32.0	26.7	24.7	24.5	28.2	30.3			
11	35.8	38.2	38.7	41.4	44.4	44.3	51.4	16.53	60.3
	42.6	40.4	42.9	51.2	57.6	65.6			
	78.1	84.4	84.0	74.0	72.1	55.9			
	54.7	49.9	45.1	37.3	30.3	24.1			
12	23.9	26.6	34.0	37.7	36.5	42.2	44.1	12.81	45.6
	43.4	43.4	44.6	49.6	56.1	59.3			
	67.0	69.5	66.4	56.6	52.1	48.5			
	36.3	32.7	35.2	32.7	31.4	31.8			
13	32.2	32.5	34.7	37.8	36.9	36.5	43.9	7.31	24.7
	37.3	39.6	40.2	44.9	52.3	50.4			
	54.5	56.8	48.6	44.2	52.3	50.6			
	48.7	53.9	48.3	40.8	39.7	40.5			
14	40.6	42.1	43.0	42.4	43.9	44.2	52.8	13.52	42.6
	45.5	46.1	47.8	53.9	62.1	69.0			
	76.0	73.9	75.7	74.0	65.9	62.9			
	56.2	52.3	44.4	37.4	33.6	33.4			
15	36.9	40.7	44.7	46.0	45.8	46.4	53.2	10.05	37.6
	48.1	48.9	49.4	52.6	54.2	64.4			
	71.6	74.5	71.3	67.8	64.2	56.1			
	48.5	50.0	50.8	49.2	47.4	46.6			
16	46.2	47.2	48.7	50.2	51.2	52.1	51.7	3.34	.0
	52.4	52.6	54.9	56.1	57.2	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

DECEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
17	.0 .0 62.4 56.6	.0 .0 59.2 53.3	.0 .0 54.2 51.9	.0 .0 52.0 48.0	.0 66.7 56.9 50.9	.0 66.3 57.9 49.7	56.2	5.68	.0
18	51.2 59.4 68.1 24.5	.0 65.5 71.4 9.6	.0 77.8 71.4 7.5	.0 76.0 85.8 15.2	54.4 67.4 73.8 22.6	52.7 61.4 45.8 15.0	51.3	24.49	.0
19	8.0 21.6 45.1 40.1	8.6 23.5 55.9 27.8	19.0 25.5 63.1 16.9	21.7 27.8 65.4 21.1	22.0 28.2 63.1 24.4	22.5 30.6 56.5 23.5	31.7	16.83	57.5
20	23.9 38.4 53.7 42.1	26.5 38.5 53.8 34.3	30.6 40.3 54.1 25.8	34.1 46.3 60.4 23.2	35.5 50.6 62.5 26.7	36.6 50.8 56.6 32.8	40.8	11.86	39.3
21	37.5 38.7 44.8 64.7	39.8 40.0 47.9 61.9	38.8 42.7 49.8 55.0	37.9 46.7 54.9 47.2	38.1 44.6 54.8 47.8	37.5 45.6 59.9 48.8	46.9	7.94	27.3
22	51.7 52.1 66.2 42.5	54.3 61.2 62.8 40.8	55.5 67.5 56.4 36.6	59.4 70.6 56.7 34.0	61.8 69.1 58.3 33.7	53.2 74.3 51.5 27.9	54.1	12.28	46.4
23	26.7 42.3 58.7 42.4	32.5 42.7 59.6 42.0	37.8 43.7 63.6 41.7	40.0 47.4 67.3 42.1	41.1 50.9 55.1 40.4	41.6 54.0 49.8 .0	46.2	9.61	.0
24	.0 48.0 73.6 .0	41.8 51.6 72.8 73.1	43.0 55.4 74.4 69.4	43.2 61.2 78.1 55.5	44.3 65.4 68.8 31.7	46.7 71.0 59.6 9.3	56.3	16.54	.0

DECEMBER 1965

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	27.8	33.1	30.1	42.1	36.1	35.5	39.6	6.60	27.7
	35.6	37.3	34.6	37.9	38.5	38.3			
	41.2	37.6	38.9	53.3	55.5	49.9			
	45.8	35.3	35.1	42.8	43.4	45.4			
26	50.1	48.5	47.6	51.1	51.1	50.4	37.4	9.99	30.4
	43.8	42.8	43.2	46.1	48.0	36.1			
	28.8	25.5	27.8	36.3	30.7	20.6			
	28.5	31.9	29.4	23.7	26.3	30.1			
27	32.0	37.6	42.9	44.3	42.3	41.2	45.5	11.50	36.8
	43.6	44.1	46.4	49.7	53.2	54.8			
	55.6	62.9	62.2	62.6	62.1	55.8			
	51.2	34.6	30.2	26.1	27.2	29.0			
28	31.9	31.9	34.8	39.5	39.7	40.4	42.6	11.52	44.4
	38.9	36.6	42.2	46.1	48.6	47.9			
	52.1	59.8	62.2	68.9	56.7	50.4			
	48.9	32.9	25.2	24.5	31.3	30.9			
29	30.2	30.5	31.8	32.8	32.8	32.6	37.7	9.27	.0
	31.8	31.3	31.6	37.2	43.1	47.1			
	.0	59.8	58.6	57.7	43.4	31.8			
	29.0	33.3	37.5	34.8	32.4	34.8			
30	36.1	39.3	40.3	39.7	43.0	45.4	42.1	2.82	.0
	43.0	44.7	43.7	46.2	44.9	40.4			
	40.5	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
31	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

HOURLY MEAN
DURING THE MONTH

37.4	38.9	40.7	42.8	43.9	44.4
44.6	45.9	48.3	52.2	55.4	57.6
61.4	62.9	62.3	62.9	59.5	52.8
46.3	43.1	39.6	37.3	36.2	35.6

MONTHLY MEAN 48.0

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JANUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
3	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
4	.0	.0	.0	.0	.0	.0	.0	.00	.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	41.4	10.93	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	57.4			
	54.7	47.5	38.7	29.9	30.3	31.3			
6	32.1	33.2	35.0	37.1	39.8	40.9	49.9	14.52	47.7
	39.8	39.7	42.1	47.7	51.2	53.9			
	63.8	74.3	79.9	76.3	72.4	66.1			
	56.7	53.0	46.2	41.5	37.4	37.2			
7	37.4	38.1	39.5	41.1	43.3	40.6	49.9	21.66	72.6
	36.8	35.6	37.7	42.2	46.9	55.3			
	63.0	78.2	79.6	94.4	94.8	77.5			
	68.1	50.3	22.7	23.5	22.2	23.3			
8	17.9	24.1	30.1	32.2	37.2	40.5	44.3	16.63	59.4
	41.5	38.7	41.7	43.4	45.3	46.9			
	49.4	61.7	74.4	77.3	76.7	69.9			
	54.9	41.8	32.6	28.9	28.3	27.3			

JANUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	29.7	35.4	39.2	40.5	40.9	42.8	46.3	15.75	57.0
	41.6	41.9	43.9	48.1	51.1	55.9			
	63.7	74.7	76.9	73.9	65.4	54.7			
	48.8	44.7	32.7	20.0	24.4	20.8			
10	24.4	30.3	33.3	33.1	29.5	31.0	42.9	16.44	53.4
	30.9	31.9	34.6	42.5	48.9	55.1			
	64.7	67.7	72.6	77.8	71.0	54.4			
	44.9	35.0	33.4	28.3	27.3	27.8			
11	29.6	33.6	36.7	38.8	40.8	42.2	51.2	14.01	50.2
	43.3	43.9	45.7	48.8	51.5	53.5			
	58.5	66.2	72.8	79.8	76.8	69.1			
	64.4	61.3	53.0	42.3	37.6	39.1			
12	40.4	38.2	37.6	37.7	38.8	39.6	51.1	10.65	30.8
	40.2	40.1	42.7	48.4	54.9	57.5			
	58.0	65.6	68.4	67.2	67.1	62.3			
	60.7	59.1	57.3	50.9	46.6	47.2			
13	45.3	46.4	48.7	49.7	49.8	50.2	63.0	17.13	50.1
	51.8	52.9	53.3	61.7	72.8	79.9			
	84.9	88.5	90.5	94.8	93.0	80.3			
	66.6	58.3	51.4	48.3	47.3	44.7			
14	43.7	44.6	45.6	46.8	48.3	50.1	53.4	11.03	.0
	51.1	57.2	60.6	59.4	62.3	63.9			
	69.0	72.8	.0	68.3	67.7	61.9			
	55.7	48.6	43.6	37.6	35.5	34.1			
15	33.1	34.5	35.8	39.7	42.6	44.5	56.4	16.92	54.5
	45.9	46.8	49.6	56.4	61.8	68.1			
	75.9	79.8	81.4	82.6	87.6	81.9			
	65.5	56.9	49.7	46.8	43.9	43.5			
16	42.7	43.5	45.0	45.1	43.3	44.2	51.2	8.44	24.5
	44.9	46.3	46.6	49.5	50.2	54.2			
	60.5	62.7	64.4	66.5	67.2	65.1			
	56.4	52.5	46.4	43.4	44.4	43.6			

JANUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	41.8 43.1 60.6 80.9	41.4 44.1 65.8 74.7	41.5 47.4 79.0 64.5	42.0 53.3 87.5 54.1	42.8 56.6 87.6 53.8	42.1 58.5 85.8 55.1	58.5	15.83	46.2
18	58.1 55.1 90.2 .0	63.8 54.9 96.4 .0	65.7 59.5 95.8 .0	58.4 67.7 .0 .0	55.9 67.4 .0 .0	55.3 79.1 .0 .0	68.2	14.42	.0
19	.0 .0 .0 64.8	.0 .0 .0 53.6	.0 .0 .0 47.7	.0 .0 .0 45.0	.0 .0 .0 46.6	.0 .0 .0 46.9	50.8	6.83	.0
20	45.4 42.7 69.2 24.4	45.6 45.9 70.5 18.8	55.1 54.0 54.8 9.1	46.7 54.1 43.2 19.0	43.8 52.9 35.0 24.5	44.8 59.3 23.1 22.1	41.8	16.05	61.5
21	21.2 23.7 56.2 26.0	20.5 27.7 69.5 24.5	33.9 43.6 60.1 20.7	28.1 46.8 54.1 18.4	27.5 63.3 .0 19.7	25.5 73.5 45.7 9.1	36.5	18.12	.0
22	11.0 67.7 54.8 29.2	19.2 57.7 45.6 24.7	21.5 55.5 39.2 14.4	29.6 54.8 34.8 7.0	31.9 47.2 42.1 4.5	41.5 43.9 31.0 6.9	34.0	17.49	63.1
23	10.9 25.1 37.3 36.8	21.7 27.2 27.4 23.8	25.2 29.4 32.0 21.3	21.5 32.7 42.8 19.0	22.3 31.8 50.2 18.7	23.0 36.0 48.3 19.0	28.5	9.49	39.2
24	20.4 31.9 38.9 36.0	21.7 31.7 37.4 33.6	25.6 33.0 35.6 29.8	27.8 34.0 35.8 22.6	28.3 38.7 31.3 19.8	30.7 36.4 26.5 21.2	30.4	5.88	19.1

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

FEBRUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	40.0	37.5	34.3	34.1	34.0	35.9	44.2	8.56	.0
	36.4	38.8	45.5	50.5	52.2	50.6			
	48.9	50.7	55.7	61.6	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	43.9	2.58	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	48.6			
	45.3	43.1	43.1	39.6	42.7	44.7			
3	42.5	41.6	43.7	47.3	49.1	44.9	42.9	14.96	50.4
	40.6	45.0	47.4	55.4	61.4	61.8			
	63.2	58.9	55.7	56.5	49.9	42.9			
	33.9	26.4	14.4	12.8	16.0	19.4			
4	22.8	33.8	33.1	35.1	35.1	38.5	33.1	5.17	18.5
	35.2	32.2	34.6	41.3	39.9	33.2			
	29.0	31.2	33.6	34.5	36.7	36.3			
	39.5	37.2	24.2	23.3	23.6	30.1			
5	27.3	19.6	24.2	27.7	30.6	35.9	28.8	10.34	42.3
	33.2	32.6	32.5	31.2	35.2	30.2			
	27.5	46.7	50.3	44.4	37.3	29.8			
	23.8	19.2	8.0	9.4	18.4	15.6			
6	21.2	19.7	20.2	27.6	26.1	23.3	34.2	10.54	36.3
	28.2	30.9	33.0	37.3	37.9	37.5			
	38.6	40.7	50.3	55.9	52.9	48.8			
	45.9	37.1	33.7	27.1	23.6	23.5			
7	23.9	25.2	26.1	29.8	30.2	30.8	33.8	6.99	27.0
	33.6	32.8	32.8	34.8	32.0	32.6			
	33.7	35.0	38.8	49.4	50.9	45.9			
	42.1	35.9	29.7	26.5	28.1	30.4			
8	32.7	34.0	33.0	33.2	34.7	33.9	44.8	14.61	46.9
	35.6	37.7	38.5	40.8	45.8	56.6			
	67.7	77.0	73.8	66.5	61.5	52.9			
	51.8	42.7	33.5	30.3	30.1	30.5			

FEBRUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	31.7 39.0 56.9 55.8	31.9 41.2 62.8 53.1	33.7 41.7 .0 43.5	36.2 47.0 .0 37.8	35.6 47.2 .0 34.4	36.6 49.7 61.5 32.8	43.3	9.70	.0
10	30.3 45.5 73.1 57.0	33.6 46.2 87.4 .0	37.9 44.6 103.8 34.2	42.3 53.3 95.9 20.8	42.8 49.9 78.3 19.4	43.5 57.5 66.8 24.1	51.7	22.65	.0
11	30.0 34.2 58.1 41.0	32.3 40.1 66.2 42.1	35.3 49.9 52.7 39.3	31.2 53.3 51.3 26.3	32.4 54.4 63.0 18.2	33.0 52.6 57.9 14.2	42.0	13.58	52.0
12	11.8 24.4 43.9 55.4	17.0 27.1 48.2 53.1	21.8 31.8 49.1 43.4	25.8 34.5 53.5 33.6	29.0 37.8 60.5 30.7	23.0 42.6 59.4 29.5	37.0	13.54	48.7
13	27.8 29.1 46.2 47.7	25.6 31.9 49.3 39.8	26.0 33.2 52.5 37.3	29.7 34.2 56.6 35.5	27.3 38.2 53.3 34.3	28.3 42.7 49.3 32.7	37.8	9.39	31.0
14	32.8 35.6 .0 53.9	33.2 38.2 .0 51.1	33.9 40.8 .0 44.1	34.0 42.6 .0 40.2	35.7 42.3 .0 36.5	37.0 40.9 56.0 36.3	40.3	6.66	.0
15	35.1 41.0 49.5 50.2	35.4 43.8 44.8 46.0	37.3 46.0 41.0 36.1	38.4 46.7 41.8 35.2	41.2 47.5 48.1 32.0	41.2 49.3 49.7 35.0	42.2	5.51	18.2
16	35.3 32.2 50.9 .0	35.0 37.2 59.9 54.2	31.9 36.2 62.9 46.1	28.3 37.4 64.2 38.1	28.2 42.3 .0 35.0	28.3 44.4 .0 36.5	41.2	10.94	.0

FEBRUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	37.4	38.7	40.7	41.9	41.7	43.4	49.7	11.42	.0
	46.5	48.7	49.2	52.8	52.9	56.4			
	65.8	70.7	70.3	74.6	.0	57.5			
	54.2	47.8	40.4	37.0	36.5	37.3			
18	39.1	37.8	37.4	39.6	42.8	47.4	49.4	13.00	41.0
	43.9	44.4	43.2	44.1	44.2	53.9			
	66.1	75.1	76.9	73.4	70.0	59.0			
	50.2	46.5	39.6	36.0	37.6	37.5			
19	37.1	37.7	41.1	45.5	44.7	40.1	55.1	16.55	.0
	40.9	46.2	48.3	51.7	53.2	60.3			
	71.0	83.8	89.3	81.4	64.8	.0			
	.0	.0	.0	.0	.0	.0			
20	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
21	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
22	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
23	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
24	.0	.0	.0	.0	.0	.0	34.6	15.69	.0
	.0	.0	.0	.0	28.3	32.3			
	37.5	53.5	58.6	59.8	51.1	43.6			
	32.3	14.5	17.3	17.5	17.0	21.9			

FEBRUARY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	24.2	25.3	29.6	23.9	22.8	22.7	25.2	2.34	.0
	23.3	26.4	28.3	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

HOURLY MEAN
DURING THE MONTH

30.7	31.3	32.7	34.3	34.9	35.1
35.8	38.0	39.9	43.8	44.4	46.6
51.6	57.9	59.7	60.1	55.6	50.9
45.9	40.6	33.8	29.3	28.6	29.6

MONTHLY MEAN 041.

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

MAY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
3	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
4	.0	.0	.0	.0	.0	.0	.0	.00	.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	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
6	.0	.0	.0	.0	.0	.0	18.8	10.32	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	39.9			
	28.6	15.0	10.6	11.9	11.8	13.8			
7	17.2	20.8	20.8	22.4	22.4	23.6	28.2	14.12	49.0
	24.7	26.1	26.8	30.6	36.7	41.0			
	45.8	50.7	55.7	56.2	45.9	33.0			
	21.0	15.3	12.0	7.2	10.2	11.8			
8	12.1	15.4	17.7	19.2	21.9	23.2	25.7	15.83	56.1
	25.5	27.3	27.8	29.6	39.6	42.9			
	43.1	47.7	50.7	53.6	40.2	34.8			
	25.2	14.4	6.5	1.6	2.5	2.1			

MAY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	5.1	7.1	12.0	13.2	11.8	17.2	21.8	9.00	35.4
	25.5	27.6	29.1	34.5	37.1	40.4			
	18.2	21.3	26.7	26.5	31.0	28.3			
	23.9	21.0	17.1	13.6	16.5	19.1			
10	17.8	16.2	17.8	20.2	22.3	23.7	29.6	7.85	30.2
	25.1	25.5	26.8	29.3	32.8	39.6			
	39.6	41.2	46.4	40.2	35.8	32.7			
	29.1	31.2	30.7	29.8	29.5	26.7			
11	24.5	23.8	26.5	30.1	32.6	32.8	36.0	14.19	55.7
	33.0	34.2	41.5	52.1	59.2	63.6			
	59.8	49.7	41.5	49.8	42.6	37.0			
	33.1	30.3	24.4	20.7	7.9	11.9			
12	11.3	16.7	15.5	18.7	24.2	21.1	28.7	10.19	35.6
	25.1	27.6	28.8	31.4	38.8	44.7			
	45.4	46.9	43.7	39.6	34.5	33.3			
	32.0	28.8	19.5	22.2	19.1	20.2			
13	28.5	22.4	23.7	22.5	24.8	28.2	25.8	4.40	17.6
	29.1	28.6	26.0	31.6	29.6	28.6			
	25.6	30.6	34.0	30.9	24.0	19.3			
	16.7	16.4	22.0	24.5	25.7	26.2			
14	25.0	25.3	24.8	26.7	27.0	27.8	38.2	12.49	.0
	29.1	30.3	31.1	33.6	40.3	48.7			
	56.1	61.2	59.8	52.7	45.6	41.8			
	.0	.0	.0	.0	.0	.0			
15	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
16	.0	.0	.0	.0	.0	.0	37.7	20.95	.0
	.0	.0	.0	.0	.0	64.2			
	67.9	67.4	61.6	50.3	40.3	30.3			
	24.0	22.2	14.0	13.7	16.7	17.4			

MAY 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	14.3	13.1	23.7	27.0	22.3	22.9	28.8	16.57	52.3
	25.9	28.1	28.7	35.0	42.9	50.0			
	55.6	61.8	61.7	50.7	35.7	21.4			
	13.4	9.8	9.5	11.0	13.9	11.7			
18	15.8	13.3	12.6	11.7	12.5	17.7	28.7	15.48	48.6
	20.3	23.0	27.4	32.7	42.0	52.0			
	59.7	60.3	55.4	49.6	34.8	24.3			
	18.2	20.4	22.2	22.9	21.1	18.9			
19	20.5	20.8	21.9	25.5	25.7	24.9	23.7	8.20	.0
	27.1	29.1	34.1	42.3	25.8	.0			
	.0	.0	29.3	28.0	37.1	25.3			
	15.3	9.9	14.1	11.7	13.5	16.6			
20	18.5	21.4	23.5	24.1	25.3	28.5	36.3	18.42	60.4
	33.8	35.3	37.1	38.4	45.8	56.0			
	62.5	67.9	67.3	64.5	60.3	48.6			
	35.9	23.2	8.5	7.5	14.0	22.7			
21	25.6	24.5	21.1	22.2	21.9	20.8	32.2	10.72	42.3
	29.1	26.2	42.6	33.5	63.2	51.9			
	40.2	48.3	39.2	38.7	32.9	34.3			
	26.7	31.0	26.0	26.9	22.3	23.5			
22	24.1	26.4	28.1	29.6	29.3	28.5	36.0	13.53	41.6
	29.2	30.2	33.7	37.0	46.4	54.4			
	61.2	64.6	62.0	55.2	44.9	35.1			
	27.0	24.1	24.1	23.9	23.2	23.0			
23	25.1	25.5	26.3	27.0	24.7	25.3	33.4	9.98	30.7
	31.0	25.8	41.6	34.6	55.4	50.1			
	50.5	55.4	36.0	43.2	28.7	30.9			
	28.5	29.2	26.1	27.6	26.0	27.0			
24	28.0	29.6	31.5	33.2	33.1	32.2	38.5	13.48	43.9
	31.8	34.0	34.9	36.7	43.6	53.1			
	62.7	65.3	66.5	62.8	49.7	33.8			
	26.3	22.6	23.8	27.3	30.5	30.2			

MAY 1966

S. JOSE DOS CAMPOS
F. 24.000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	29.5	30.8	31.9	.0	.0	.0	30.7	.99	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
30	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
31	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

HOURLY MEAN
DURING THE MONTH

20.2	20.8	22.3	23.3	23.9	24.9
27.8	28.7	32.4	35.2	42.4	48.8
49.7	52.5	49.3	46.6	39.1	32.5
25.1	21.5	18.3	17.7	17.6	19.0

MONTHLY MEAN 03 .6

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JUNE 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.1	7.38	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	13.9	8.6			
	2.2	4.1	6.1	8.6	5.9	1.0			
3	.4	2.8	3.3	5.4	9.8	13.0	17.5	14.21	42.2
	14.3	13.7	14.2	16.9	23.0	29.1			
	35.9	40.9	40.2	37.6	42.5	37.5			
	17.8	5.6	2.9	3.4	4.1	5.4			
4	6.1	6.3	6.0	13.5	12.7	13.4	17.7	8.83	28.3
	14.8	16.5	18.3	19.5	20.6	26.3			
	30.4	32.9	34.3	33.8	29.3	20.8			
	13.4	10.8	11.0	10.9	12.5	10.4			
5	10.0	11.4	17.6	21.7	24.7	26.4	31.6	13.39	51.0
	25.5	28.1	31.4	33.3	42.0	36.0			
	50.0	55.2	61.0	58.1	42.1	33.8			
	29.6	26.7	26.2	23.4	23.1	21.2			
6	19.9	19.0	24.1	20.4	23.3	26.4	31.8	14.65	47.5
	28.4	30.4	32.0	34.8	44.0	48.3			
	53.9	57.4	60.6	56.9	44.3	33.2			
	27.7	21.1	15.2	13.1	14.1	15.2			
7	19.2	22.3	20.7	28.2	24.1	24.2	28.1	13.66	43.5
	24.6	22.5	22.4	23.2	31.7	43.8			
	55.3	53.1	55.2	46.2	44.2	30.3			
	17.0	12.9	13.6	15.1	12.7	11.8			
8	11.1	12.1	11.8	14.8	17.6	19.4	23.2	10.61	32.4
	21.3	21.6	23.8	26.9	31.7	38.3			
	41.0	42.2	43.5	37.4	30.5	25.7			
	19.2	15.6	14.2	11.6	12.8	12.5			

JUNE 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	18.6 26.2 52.7 25.2	20.2 25.3 63.7 17.3	23.0 24.9 64.2 13.8	21.9 26.6 57.2 11.5	22.6 34.1 51.9 9.8	24.0 43.4 35.8 12.9	30.3	16.15	54.3
18	15.4 23.6 58.7 31.7	15.5 24.3 65.3 22.4	15.0 26.2 69.0 22.3	16.1 29.8 62.8 23.1	22.6 36.7 53.6 23.1	22.4 47.1 41.2 24.4	33.0	16.78	54.0
19	21.2 28.2 55.7 39.1	23.7 25.9 65.7 30.9	25.6 26.5 62.6 24.2	28.6 31.1 63.3 19.2	29.7 39.6 54.1 17.9	29.4 49.3 43.0 19.8	35.6	14.75	47.7
20	22.7 13.6 37.1 .0	24.0 17.8 42.3 6.7	25.1 19.0 42.0 11.9	23.6 23.7 32.1 15.1	23.9 30.6 20.8 16.9	22.5 34.6 15.7 17.8	23.7	8.95	.0
21	16.8 21.6 45.4 27.3	15.1 22.8 50.2 .0	18.2 22.0 53.9 .0	17.7 25.8 53.3 16.3	18.9 32.0 45.3 16.2	19.9 39.4 35.5 17.7	28.7	13.02	.0
22	18.2 22.3 46.3 24.6	19.2 22.6 53.1 23.7	19.9 23.5 54.8 20.1	21.9 24.9 49.7 17.8	22.3 28.8 44.3 18.3	22.8 37.7 31.6 17.6	28.6	11.80	37.3
23	17.7 29.6 47.3 - 17.9	21.7 33.2 44.2 - 33.5	24.0 36.3 37.4 - 30.9	24.1 36.3 22.1 - 21.3	25.3 41.2 14.7 - 2.7	28.8 47.4 .5 11.1	18.2	23.54	80.8
24	13.1 36.4 54.3 21.4	15.6 39.0 60.3 .8	20.4 40.2 71.0 - 19.7	23.8 33.3 71.0 - 24.6	25.9 39.0 66.8 - 19.5	30.6 46.1 48.2 - 7.4	28.6	27.35	95.6

JUNE 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	3.3	4.2	9.8	1.1	4.8	5.2	11.3	10.44	.0
	4.4	4.5	10.0	12.5	12.9	14.6			
	19.6	30.8	35.2	31.0	15.4	10.6			
	3.9	.6	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
30	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

HOURLY MEAN
DURING THE MONTH

14.3	15.9	17.7	18.8	20.6	21.9
23.0	24.0	25.8	27.8	33.1	38.9
45.0	48.1	48.8	44.3	36.0	26.9
18.4	11.3	10.7	10.5	11.7	13.3

MONTHLY MEAN 24.6

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

SEPTEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
1	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
3	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
4	.0	.0	.0	.0	.0	.0	.0	.00	.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	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
6	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
7	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
8	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

SEPTEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
10	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
11	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
13	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
14	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
15	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

SEPTEMBER 1966 S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
16	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
17	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
18	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
19	.0	.0	.0	.0	.0	.0	4.0	6.15	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	11.8	8.0	3.6	6.5	1.9	7.8			
20	- 2.4 -	2.8	- 1.4	3.8	7.2	5.9	11.9	20.40	67.1
	4.8	7.4	5.3	10.6	18.1	32.6			
	49.9	52.5	51.0	41.5	34.1	19.5			
	- 4.3 -	11.0	- 10.1	- 14.6	- 10.0	- 1.9			
21	1.6	- 2.3	- 4.5	1.2	- 3.2	- 3.0	9.3	15.20	.0
	.2	1.7	2.5	5.8	11.9	24.7			
	.0	.0	45.4	44.2	38.1	21.8			
	12.6	5.5	4.7	.8	- 1.9	- 2.2			
22	- 3.1	2.3	.6	2.1	2.5	4.0	11.5	15.05	51.1
	2.2	2.8	5.0	10.9	18.2	23.3			
	36.0	42.5	45.3	36.8	26.6	15.6			
	1.6	- .8	- 5.7	.0	3.0	3.7			
23	4.3	4.2	5.0	6.3	4.0	5.8	15.7	15.60	.0
	6.5	7.5	10.2	19.5	21.9	23.9			
	32.6	48.2	50.6	36.3	32.5	.0			
	.0	.0	.1	10.3	6.5	- 6.3			
24	- 5.4 -	4.9	3.1	8.3	10.4	9.7	16.1	18.64	59.7
	12.8	15.5	8.3	11.0	13.3	11.9			
	26.0	50.6	54.2	54.2	52.5	36.2			
	11.3	6.1	2.2	1.2	.3	- 1.3			

SEPTEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	.2	2.4	3.6	11.1	2.8	1.5	16.8	22.46	72.0
	6.9	8.7	7.7	12.2	19.9	31.1			
	47.9	57.2	60.9	56.3	49.0	37.7			
	24.0	11.8	5.8	5.5	5.7	.0			
26	6.5	20.7	19.0	7.6	2.4	.0	11.3	6.09	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	7.5	15.6	11.0			
27	4.3	3.1	3.0	.4	6.3	3.2	13.2	24.92	.0
	.0	5.3	.7	6.2	26.4	32.9			
	51.7	72.8	80.3	.0	.0	.0			
	13.4	1.6	2.2	2.4	10.3	8.1			
28	6.5	.3	2.5	7.3	13.8	13.2	5.1	17.28	.0
	7.0	3.3	.6	6.9	14.0	24.8			
	32.3	.0	43.6	29.4	25.9	.0			
	.0	.0	3.5	2.9	16.0	18.9			
29	15.3	5.1	4.0	9.3	4.3	6.4	3.7	15.68	55.5
	5.5	3.2	1.8	2.2	4.5	15.6			
	29.7	39.3	33.9	28.0	25.7	7.2			
	10.8	11.6	7.1	6.2	4.4	5.7			
30	6.3	1.7	4.5	4.0	4.1	13.8	8.7	16.99	64.2
	4.3	1.0	.2	.3	9.7	24.0			
	36.7	49.2	42.9	28.8	20.3	16.0			
	7.3	.2	5.2	15.0	12.8	14.4			

HOURLY MEAN
DURING THE MONTH

4.0	2.7	1.2	.4	1.5	1.8
2.5	4.1	3.7	8.1	15.8	24.5
28.1	51.5	50.8	39.5	33.9	22.0
7.4	1.1	1.5	2.9	5.4	6.1

MONTHLY MEAN 1 .2

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

OCTOBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

[illegible]

OCTOBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
10	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
11	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
13	.0	.0	.0	.0	.0	.0	26.8	20.56	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	54.9	54.9	48.7	36.5			
	34.7	17.3	10.9	6.8	1.7	1.6			
14	6.5	8.0	7.1	2.6	.9	3.5	17.1	14.52	46.2
	6.6	9.7	10.8	10.9	9.4	13.8			
	28.0	44.5	47.1	43.4	41.3	35.9			
	27.2	18.5	12.8	8.8	7.2	6.9			
15	7.5	10.0	11.2	9.5	5.9	6.6	17.7	15.38	.0
	7.0	8.9	12.6	16.9	36.1	42.7			
	54.5	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
16	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

OCTOBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
26	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
27	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
28	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
29	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
30	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
31	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

HOURLY MEAN
DURING THE MONTH

1.1	2.1	2.0	1.9	1.4	1.3
3.0	5.3	7.1	11.1	18.5	25.4
35.6	40.4	46.5	44.1	40.5	32.3
26.2	11.7	9.3	5.9	2.0	1.8

MONTHLY MEAN 15.5

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

NOVEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
3	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
4	.0	.0	.0	.0	.0	.0	.0	.00	.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	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
6	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
7	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
8	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

NOVEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7 13 19	8 14 20	9 15 21	10 16 22	11 17 23	12 18 24			
9	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
10	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
11	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
13	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
14	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
15	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
16	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			

NOVEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	.0	.0	.0	.0	.0	.0	8.9	13.57	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	38.1	9.7	2.4	1.6	1.9	4.6			
18	4.7	5.2	6.3	7.3	8.5	9.2	17.2	18.27	70.8
	8.5	9.7	12.9	22.7	33.1	47.9			
	54.7	49.7	40.6	30.2	24.9	9.4			
	23.8	25.1	11.4	3.1	14.8	16.1			
19	- 12.1 -	7.3 -	8.4 -	4.6	.0 -	3.8	10.2	12.84	.0
	- 3.6 -	2.8	5.8	9.0	9.5	12.7			
	19.8	25.1	23.8	25.3	33.0	29.0			
	22.7	18.9	14.0	9.3	10.0	9.3			
20	15.5	13.3	6.3	9.0	7.1	6.6	16.6	14.89	49.7
	9.5	9.9	9.3	15.1	22.2	28.7			
	40.6	41.3	41.4	41.3	38.2	27.2			
	15.5	10.0	5.2	8.3	7.0	.5			
21	3.3	4.4	4.1	3.6	2.5	3.9	18.7	16.70	42.9
	3.4	1.4	8.3	17.2	22.6	31.2			
	41.0	44.2	44.1	43.4	44.2	39.3			
	35.0	25.8	14.0	6.8	2.4	1.6			
22	3.5	3.7	5.7	2.5	4.5	6.6	20.7	14.70	45.8
	8.6	10.5	12.8	15.6	20.1	26.4			
	34.6	38.8	40.6	46.0	48.3	41.7			
	36.9	26.6	20.2	16.5	14.1	11.1			
23	10.9	15.1	17.1	18.2	16.5	17.0	24.8	10.76	36.2
	16.8	16.5	18.8	21.5	24.3	25.7			
	33.5	40.7	42.6	43.6	47.2	42.1			
	32.7	24.1	20.5	17.7	16.6	15.5			
24	13.1	14.3	13.3	10.7	5.7	1.9	18.3	12.13	40.0
	2.8	6.9	8.8	16.6	18.2	22.3			
	33.0	36.3	35.5	41.1	42.0	35.1			
	23.6	16.9	12.5	9.3	9.4	9.3			

NOVEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	9.2	10.6	13.5	13.2	14.6	13.1	25.6	13.81	41.4
	13.2	12.5	17.7	24.2	26.2	31.1			
	36.4	44.0	49.3	48.6	50.6	43.9			
	38.1	33.4	27.3	15.6	14.5	13.8			
26	4.1	10.1	11.7	6.8	8.7	17.5	16.5	9.63	.0
	16.6	21.9	16.1	30.7	25.8	29.9			
	.0	34.6	.0	34.2	23.3	20.5			
	15.2	10.8	7.4	7.1	6.3	4.0			
27	5.1	7.0	9.6	10.9	16.8	21.7	23.0	12.54	45.3
	21.8	21.7	24.1	19.3	23.3	30.8			
	42.4	48.3	50.4	45.2	33.8	26.7			
	19.8	14.6	16.7	13.7	16.2	12.8			
28	11.2	13.0	15.6	13.2	9.9	14.8	11.0	13.84	43.4
	13.1	14.1	19.4	28.1	26.8	27.1			
	28.0	27.0	22.9	20.5	18.3	1.3			
	- 12.6 -	- 12.5 -	- 5.6 -	- 15.3 -	- 5.1 -	- 9.2			
29	- 24.4 -	- 1.1	.2	.2	- 2.9	4.8	8.2	11.97	53.6
	6.2	1.6	3.7	11.1	13.7	14.3			
	21.0	22.5	23.9	23.1	29.2	22.3			
	18.7	8.6	1.4	- 1.4 -	1.2	.1			
30	- .7	3.7	6.3	10.2	12.5	7.5	5.3	14.77	60.2
	4.7	5.4	18.4	16.6	.3	5.6			
	5.8	9.1	25.0	29.8	33.1	16.1			
	7.1 -	7.5 -	11.5 -	24.4 -	27.1 -	17.4			

HOURLY MEAN
DURING THE MONTH

3.4	7.1	7.8	7.8	8.7	9.3
9.4	9.9	13.5	19.0	20.4	25.7
32.6	35.5	36.7	36.3	35.8	27.3
22.5	14.6	9.4	3.2	2.6	2.8

MONTHLY MEAN 16.3

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

DECEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	- 10.3 -	6.8 -	6.4 -	10.8 -	2.7 -	6.2	6.4	16.81	47.1
	- 7.1 -	8.5 -	2.9	4.6	10.6	21.1			
	30.6	36.3	32.1	30.3	30.4	29.2			
	20.7	1.4 -	9.1 -	10.2 -	8.0 -	5.3			
2	- 1.9	1.0	.7	2.0	2.4	1.6	11.7	10.99	35.2
	3.7	4.9	7.1	15.0	19.4	22.4			
	30.2	33.2	30.4	20.6	19.8	21.3			
	21.1	16.0	7.8	2.1 -	1.4	1.5			
3	4.2	7.6	9.4	9.8	10.2	10.4	24.8	15.11	42.1
	8.7	10.7	13.8	20.0	27.4	35.6			
	40.8	44.9	45.5	46.2	46.4	44.5			
	42.4	37.9	28.8	21.0	15.2	12.8			
4	16.1	18.6	17.6	16.5	23.5	27.6	18.7	19.46	74.3
	25.4	38.8	45.2	55.4	45.9	47.9			
	27.7	25.2	21.5	18.1	18.4	8.8			
	6.4 -	6.5 -	9.2 -	18.9 -	13.6 -	6.4			
5	- 11.8 -	2.5 -	5.4 -	3.9 -	2.2	5.4	- 5.9	17.77	59.1
	3.4	1.2	.1	7.5	5.1	4.2			
	5.1	10.6	12.1	16.5	12.0	5.4			
	- 21.1 -	42.5 -	42.6 -	39.5 -	32.4 -	25.9			
6	- 22.8 -	19.6 -	19.1 -	13.5 -	12.6 -	12.3	1.0	16.52	56.1
	- 10.7 -	8.8 -	6.0 -	.9	3.0	8.0			
	18.7	30.7	33.3	32.1	25.3	17.7			
	4.2 -	3.2 -	5.7 -	5.1 -	4.0 -	3.7			
7	- 3.2 -	2.1 -	2.5 -	1.6	.5 -	.3	18.2	19.29	.0
	- .3	2.2	7.4	14.4	25.2	33.5			
	44.3	52.2	49.4	42.6	31.1	28.7			
	24.3	.0	.0	.0	.0	.0			
8	.0	.0	.0	.0	.0	.0	8.7	3.70	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	13.7	10.6	9.9	6.2	3.0			

DECEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	2.7	4.7	8.1	8.7	8.5	10.2	22.7	15.03	50.5
	9.6	10.4	12.7	18.2	24.6	31.5			
	47.6	53.2	49.1	41.3	38.2	36.3			
	34.2	29.3	22.3	17.4	13.9	12.3			
10	13.5	15.0	16.4	16.0	15.9	12.1	23.6	13.82	43.1
	13.0	13.4	14.0	10.7	16.5	24.0			
	37.2	46.5	49.5	53.8	50.3	40.3			
	26.2	19.9	12.1	14.7	18.1	18.3			
11	18.2	16.4	13.7	13.8	12.8	.0	15.0	1.99	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.00	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
13	34.1	39.3	42.0	27.8	20.6	.0	11.5	15.23	.0
	8.1	3.7	4.8	7.4	1.4	.1			
	3.5	1.6	9.4	7.4	6.7	4.2			
	2.4	4.6	12.5	22.2	24.8	32.3			
14	55.5	.0	.0	.0	.0	51.1	23.3	25.52	.0
	56.4	48.6	37.9	46.9	51.2	30.9			
	23.8	26.7	27.2	22.1	16.9	22.0			
	27.5	22.1	20.0	11.1	.6	20.6			
15	26.7	32.9	38.0	51.7	33.6	9.7	10.0	15.64	60.2
	5.5	3.8	8.5	6.0	4.4	3.2			
	2.2	1.0	2.8	.7	1.3	1.3			
	2.0	1.5	2.9	9.5	15.8	23.9			
16	32.6	42.2	50.5	53.1	53.4	55.2	28.6	15.13	46.3
	50.6	34.4	23.2	15.2	13.5	9.4			
	8.8	10.1	16.1	21.1	18.9	17.7			
	18.1	21.3	19.8	25.8	33.8	40.5			

DECEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	50.1	62.4	65.7	64.0	58.2	37.8	26.9	18.11	60.0
	21.7	18.9	15.6	10.8	5.7	12.5			
	14.1	16.8	18.6	19.5	15.9	15.5			
	19.5	18.7	18.2	24.8	24.9	16.4			
18	- 1.3 -	11.1 -	8.3 -	4.8 -	5.0 -	7.4	- 5.5	2.27	.0
	- 5.6 -	3.5 -	5.5 -	4.9 -	5.3 -	4.5			
	- 4.9	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
19	.0	.0	.0	.0	.0	.0	13.5	13.56	.0
	.0	.0	.0	.0	.0	7.6			
	15.0	22.7	29.2	31.9	33.5	26.2			
	15.2	5.5	.6 -	2.8 -	4.1 -	4.2			
20	- 1.8	1.7	1.9	1.6	.1	3.2	9.5	19.82	71.8
	5.3	6.0	7.1	13.8	17.6	22.0			
	27.1	36.8	35.5	45.5	39.0	32.2			
	20.7	4.1 -	22.2 -	26.4 -	22.0 -	19.9			
	.	.	.	.	.	.			
21	- 16.5 -	15.3 -	9.6 -	8.1 -	8.5 -	2.4	3.3	16.64	54.1
	- 2.7 -	4.1 -	.3	5.5	8.8	14.8			
	22.1	30.6	37.6	33.1	25.6	17.7			
	10.0 -	5.3 -	15.7 -	16.0 -	8.9 -	13.9			
22	- 17.1 -	22.3 -	21.6 -	24.1 -	11.5	10.0	8.4	25.86	81.1
	8.7	10.4	16.2	23.1	31.0	40.8			
	37.0	39.7	40.3	52.2	36.2	25.1			
	18.3	4.8 -	15.2 -	28.9 -	24.0 -	28.5			
23	- 19.6 -	14.0 -	10.1 -	8.5 -	6.7 -	5.5	6.5	14.29	52.7
	- 2.9	1.9	3.8	7.0	5.5	2.9			
	14.2	19.6	23.6	33.2	25.5	24.2			
	26.3	24.2	11.5	6.2 -	5.6 -	1.6			
24	- 10.7 -	6.6 -	2.8	2.9	13.7	6.5	8.0	13.09	44.6
	- 3.4 -	4.4 -	1.6	2.2	5.3	11.3			
	19.6	28.3	32.4	33.9	30.0	23.1			
	13.3	3.9	2.7	.1 -	3.9 -	4.2			

DECEMBER 1966

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

HOURS OF DAY							MEAN	INDEX	RANGE
DAY	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	- 3.3	4.2	6.8	6.1	3.8	4.5	12.4	11.04	39.3
	1.0	.6	.5	7.5	15.5	24.8			
	32.0	30.0	26.9	23.1	23.7	18.8			
	14.5	19.9	23.0	15.0	7.3	7.4			
26	- 10.8	- 13.7	- 14.2	- 2.7	2.1	4.1	.3	11.67	41.3
	3.1	5.3	6.8	15.2	13.0	11.9			
	15.0	8.4	16.6	8.8	.3	1.4			
	- 3.0	.7	- 10.6	- 18.3	- 19.9	- 24.7			
27	- 25.1	- 16.4	- 7.6	- 12.8	- 7.1	3.0	5.5	12.67	45.0
	- 1.7	- 3.3	- 8.8	- 3.1	- 2.1	8.8			
	14.2	4.7	11.2	11.0	17.6	.6			
	- 7.5	- 20.1	- 27.5	- 22.4	- 15.3	- 22.1			
28	- 10.8	- 8.5	- 8.8	- 10.8	- 8.8	- 9.0	1.6	9.43	32.3
	- 5.8	- 6.7	- 8.3	- 3.2	1.4	4.4			
	8.8	12.0	9.8	16.8	20.7	8.8			
	- 1.3	- 5.6	- 8.2	- 11.6	- 11.0	- 4.0			
29	- 6.3	- 5.6	- 2.9	- 1.8	- 3.6	- 4.4	9.2	18.75	55.0
	- 4.2	- 4.6	- 4.7	.7	3.3	11.6			
	24.5	37.3	44.6	46.6	46.7	35.1			
	20.7	8.0	- 2.6	- 8.3	- 5.9	- 1.0			
30	- .5	1.2	5.7	6.3	7.3	4.4	10.4	11.80	37.7
	2.1	1.9	.7	1.8	5.5	12.6			
	23.9	29.1	23.9	26.7	30.3	33.0			
	25.3	14.5	.4	- 4.8	- 1.1	1.2			
31	.9	.3	1.1	.5	.0	1.6	21.9	21.10	58.1
	5.0	5.8	5.1	11.6	25.7	38.2			
	49.7	57.0	58.1	49.3	57.2	50.2			
	37.2	24.7	15.8	12.6	10.1	9.1			

HOURLY MEAN
DURING THE MONTH

2.9	3.8	5.9	6.6	7.3	4.2
2.7	3.0	3.3	6.9	9.8	15.1
20.6	25.6	27.1	27.4	24.8	19.7
13.4	6.3	.0	- 1.5	.4	.7

MONTHLY MEAN 9.7

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

JANUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	9.9	9.6	6.6	8.6	15.0	15.8	13.1	14.84	59.9
	16.8	14.1	12.8	22.5	32.7	38.7			
	44.5	32.1	29.8	20.5	6.2	2.1			
	5.8	3.7	4.7	11.2	11.0	15.4			
2	- 19.6 -	- 16.0 -	- 12.3 -	- 11.5 -	- 6.4 -	- 6.4	4.5	13.51	43.6
	- 7.1 -	- 7.1 -	- 1.6	9.5	15.8	20.6			
	22.7	24.0	22.8	22.7	20.1	13.8			
	10.0	10.7	5.9	1.0	3.6	1.1			
3	- 2.3 -	.2	1.5	2.3	2.1	.4	14.2	15.45	43.0
	.1	1.8	7.5	17.2	21.8	33.0			
	40.1	36.1	38.7	37.5	36.4	26.2			
	23.0	14.1	8.0	1.2	2.9	2.1			
4	- 2.3 -	3.0	- 1.9 -	2.0	- 2.5 -	1.7	11.8	16.72	50.2
	- 1.0 -	.4	2.1	9.6	12.9	18.3			
	27.1	35.8	40.0	47.2	45.6	33.1			
	18.8	8.0	3.1	.8	1.9	1.8			
5	- 2.2 -	1.2	.2	1.5	1.0	2.8	12.0	10.88	37.1
	5.1	5.7	4.8	10.7	14.2	19.7			
	21.7	20.1	16.7	26.0	35.0	33.6			
	25.6	19.8	14.2	6.5	3.5	2.8			
6	3.0	3.4	2.6	3.2	5.8	9.1	26.9	19.55	59.0
	11.2	17.8	19.5	29.6	34.1	52.2			
	61.6	55.6	49.4	51.2	53.0	50.7			
	41.2	25.8	20.0	14.2	15.8	14.8			
7	15.5	15.6	19.2	16.8	15.3	15.1	6.2	23.86	82.5
	14.8	17.7	26.0	19.9	27.5	30.3			
	41.0	47.1	25.1	6.7	29.0	10.6			
	- 9.5 -	- 25.2 -	- 35.4 -	- 30.9 -	- 27.3 -	- 22.6			
8	- 40.1 -	- 60.4 -	- 65.8 -	- 76.4 -	- 90.0 -	- 86.4	- 58.7	20.06	69.4
	- 69.0 -	- 54.1 -	- 52.6 -	- 52.8 -	- 30.4 -	- 30.3			
	- 30.7 -	- 20.6 -	- 22.2 -	- 50.9 -	- 64.9 -	- 71.6			
	- 73.0 -	- 73.7 -	- 83.3 -	- 78.4 -	- 69.9 -	- 62.1			

JANUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	- 55.7	- 50.9	- 51.0	- 45.5	- 44.6	- 30.3	- 23.4	21.37	.0
	- 37.1	- 37.2	- 36.1	- 33.9	- 23.5	- 17.4			
	.8	7.0	4.8	8.9	10.8	3.7			
	- 2.0	.0	.0	- 25.9	- 27.0	- 33.0			
10	- 34.2	- 28.6	- 24.4	- 22.3	- 19.8	- 19.9	- 11.9	15.87	54.8
	- 18.2	- 19.0	- 16.5	- 7.4	- .8	- 2.5			
	11.7	19.0	20.6	13.5	4.5	7.9			
	- 17.5	- 23.4	- 30.5	- 28.3	- 22.7	- 16.1			
11	- 31.0	- 27.4	- 21.6	- 19.9	- 17.4	- 4.5	- 2.8	20.38	66.2
	- 7.0	- 6.3	.5	.7	1.7	10.7			
	32.8	33.4	35.2	24.1	17.7	13.5			
	5.8	- 8.5	- 23.1	- 25.5	- 25.3	- 24.6			
12	- 22.6	- 21.6	- 20.8	- 19.8	- 18.8	- 18.0	8.4	25.45	73.2
	- 19.1	- 18.9	- 14.3	- 5.6	5.4	14.2			
	29.1	41.5	48.4	50.6	45.5	32.4			
	30.8	33.8	25.2	13.9	4.7	5.0			
13	4.9	2.7	6.7	20.7	19.7	.0	- .5	45.84	.0
	.0	.0	.0	.0	2.1	8.2			
	.0	.0	33.4	46.4	47.1	42.0			
	27.3	15.9	- 8.4	- 73.7	- 88.1	-115.1			
14	-129.1	-148.9	.0	-114.0	-126.2	-114.7	- 72.2	36.97	.0
	-101.2	- 86.2	- 75.0	- 72.1	- 93.4	- 91.5			
	- 73.9	- 62.4	- 20.6	- 22.5	- 21.5	- 28.6			
	- 37.5	- 49.4	- 55.3	- 54.9	- 41.3	- 40.6			
15	- 47.5	- 44.2	- 39.5	- 39.2	- 37.5	- 35.2	- 21.1	23.21	71.8
	- 35.7	- 34.6	- 32.3	- 27.1	- 17.9	- 2.5			
	10.8	24.3	22.5	24.1	16.1	7.8			
	- 29.7	- 30.4	- 34.5	- 35.4	- 36.3	- 38.0			
16	- 33.2	- 28.0	- 29.5	- 28.4	- 28.0	- 25.0	- 13.4	14.87	50.5
	- 17.8	- 19.4	- 19.1	- 10.3	- 10.7	- 8.5			
	- 1.8	6.2	11.6	17.2	11.2	2.0			
	- 2.4	- 6.4	- 16.3	- 25.7	- 29.5	- 28.6			

JANUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

HOURS OF DAY							MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
DAY	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	- 25.9 - - 21.5 - 7.5 11.0	- 22.6 - - 19.0 - 18.7 3.0	- 21.9 - - 14.5 - 31.4 - 1.4	- 19.4 - - 4.4 35.4 - 7.1	- 20.4 - - .8 34.6 - 10.7	- 21.1 - 5.8 30.4 - 11.1	- 1.8	19.48	61.3
18	- 12.8 - - 7.2 - 34.6 16.7	- 12.6 - - 4.3 - 50.5 8.5	- 10.0 - - .3 63.4 - 1.0	- 9.9 - - 12.9 69.3 - 8.8	- 8.4 - - 23.4 62.6 - 12.4	- 7.4 - 30.6 43.2 - 14.0	12.8	27.06	83.3
19	- 10.4 - - 6.3 - 43.2 46.8	- 8.4 - - 6.1 - 60.1 24.5	- 6.4 - - 4.8 73.7 5.2	- 6.4 - - 2.7 77.7 - 7.5	- 6.9 - - 18.5 76.7 - 9.8	- 6.9 - 31.4 67.1 - 7.5	18.3	31.67	88.1
20	- 3.9 - - .1 17.6 - 24.3	- 3.8 - - 1.3 22.4 - 37.3	- 7.1 - - .1 31.5 - 39.9	- 8.2 - - 8.6 28.7 - 29.9	- 5.7 - - 10.3 - .0 - 26.4	- 4.3 - 9.6 - .0 - 22.2	- 3.8	19.59	.0
21	- 25.9 - - 21.0 - 8.5 27.2	- 26.3 - - 21.4 - 10.7 16.7	- 28.6 - - 16.6 - 19.5 5.9	- 27.8 - - 9.3 21.6 5.5	- 28.8 - - 1.0 22.7 8.8	- 25.6 - 7.0 23.7 - 11.2	- 3.8	19.15	56.0
22	- 15.0 - - 4.4 - - .0 22.2	- 13.0 - - 2.0 - .0 10.6	- 8.9 - - 1.5 - .0 - .9	- 6.0 - - 9.1 53.9 3.5	- 5.1 - - 16.2 51.2 1.8	- 6.0 - .0 38.7 - .2	6.9	19.54	.0
23	3.3 4.7 52.3 31.6	3.8 4.2 69.7 21.0	3.8 4.7 72.8 13.6	6.0 9.2 69.3 7.4	7.6 20.3 59.8 3.7	5.2 35.3 45.3 2.1	23.2	24.22	70.7
24	.7 1.8 15.1 35.1	1.8 .7 30.5 25.3	3.0 .1 53.1 16.7	4.0 - 1.3 61.6 10.7	3.3 - .2 55.6 7.4	2.2 7.0 45.5 6.8	16.1	19.55	62.9

JANUARY 1967

S. JOSÉ DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	17.1	21.0	26.3	23.8	22.7	23.3	23.9	9.00	29.3
	23.1	16.8	17.4	15.0	15.2	25.0			
	36.1	41.5	43.0	39.3	35.5	31.5			
	23.7	17.8	15.4	13.7	15.2	14.2			
26	9.6	11.9	13.2	15.0	6.0	4.4	21.0	16.76	51.0
	4.0	4.4	6.5	13.4	16.8	24.1			
	44.8	49.5	52.3	55.0	48.8	37.0			
	24.7	21.9	14.4	11.0	7.5	7.1			
27	6.1	6.5	7.8	8.6	8.0	9.3	30.5	22.22	61.2
	11.2	13.3	15.3	22.2	30.4	41.0			
	60.4	65.6	67.3	64.0	65.8	61.0			
	47.4	36.7	30.5	24.3	18.5	11.5			
28	3.8	3.0	8.6	7.9	1.3	6.9	12.8	16.99	56.5
	9.0	9.4	.4	8.2	10.9	22.5			
	33.8	43.2	47.1	43.5	35.7	29.7			
	20.3	9.1	4.9	1.0	.5	2.6			
29	.3	.1	.8	2.2	5.9	7.6	22.7	22.14	63.4
	7.4	5.6	8.1	15.7	19.9	26.8			
	39.1	53.8	58.8	63.5	58.0	49.4			
	47.5	47.3	13.8	6.7	3.9	1.5			
30	.7	.3	.7	.7	.3	.3	28.2	29.04	80.8
	.2	3.0	5.4	16.9	28.9	44.3			
	56.9	70.8	76.7	79.8	80.5	66.1			
	49.6	37.5	25.0	13.8	11.4	8.9			
31	6.7	5.6	4.7	4.0	3.1	3.4	26.7	24.91	72.5
	3.3	4.4	6.2	16.2	24.1	28.6			
	38.9	56.0	66.2	73.6	75.6	67.8			
	53.2	39.0	24.7	16.8	12.8	7.0			

HOURLY MEAN
DURING THE MONTH

- 13.9 - 13.9 - 8.1 - 10.6 - 11.3 - 10.7
 - 9.3 - 7.8 - 4.8 - 1.5 - 7.4 - 14.6
 25.0 32.5 37.1 37.0 33.2 25.4
 14.5 6.6 - 2.5 - 10.1 - 11.3 - 12.2

MONTHLY MEAN 4.2

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

FEBRUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
	.	.	.	.	.	.			
1	2.7	2.0	.6	2.2	3.5	3.6	25.9	29.59	82.8
	1.7	2.3	2.5	8.8	23.7	36.5			
	51.0	68.5	78.3	79.2	75.1	67.0			
	55.1	37.7	21.6	13.4	9.7	5.9			
2	3.8	2.1	3.7	6.0	5.1	4.2	27.6	27.56	76.4
	5.0	6.3	8.0	14.8	28.7	42.6			
	55.2	67.5	76.7	78.5	74.1	66.8			
	51.4	28.8	11.7	6.4	7.0	6.8			
3	4.2	4.7	5.6	6.4	5.6	4.5	32.9	26.21	78.2
	4.7	6.1	5.9	10.1	24.3	35.3			
	50.9	66.4	76.3	82.4	73.7	58.3			
	43.1	51.4	51.0	43.6	37.0	37.3			
4	37.5	39.7	39.7	35.8	32.8	32.6	46.8	25.93	106.7
	22.6	30.8	32.3	36.9	46.0	55.0			
	69.7	73.9	88.8	101.0	85.0	79.8			
	71.2	48.1	34.6	23.7	1.5	5.7			
5	13.4	2.5	9.4	17.0	20.0	17.6	27.0	15.74	69.5
	19.6	21.0	22.1	25.0	32.6	38.2			
	43.4	44.1	45.6	56.1	37.5	48.4			
	44.0	36.6	22.6	17.2	20.5	21.1			
6	20.0	19.3	18.0	15.7	14.6	13.5	40.3	24.25	71.5
	15.7	18.8	26.1	28.3	36.8	52.0			
	72.7	81.1	84.2	85.0	80.5	63.0			
	49.1	42.0	41.7	35.2	27.8	26.8			
7	29.4	30.6	32.3	29.8	27.3	28.1	50.9	25.10	.0
	30.2	32.7	31.7	38.2	46.4	57.6			
	74.5	89.7	98.9	95.0	76.3	68.1			
	.0	.0	.0	.0	.0	.0			
8	93.2	87.4	80.3	56.9	58.1	40.8	37.5	26.26	102.2
	45.9	41.5	40.8	37.2	39.9	40.8			
	39.4	30.2	21.3	5.3	1.2	1.9			
	7.3	9.1	31.7	44.0	41.7	37.6			

FEBRUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	.0	.0	.0	.0	.0	.0	- 1.8	19.03	.0
	.0	.0	.0	.0	- 20.1	- 14.4			
	10.0	17.9	30.2	25.1	.0	.0			
	9.6	.7	- 13.3	- 20.8	- 23.0	- 24.1			
18	- 26.2	- 26.9	- 26.9	- 22.4	- 23.0	- 21.8	- 3.7	19.21	61.1
	- 18.6	- 20.8	- 18.6	- 9.8	2.1	7.3			
	9.4	18.1	25.6	34.2	31.6	21.2			
	12.8	3.0	- 5.8	- 11.6	- 11.3	- 10.6			
19	- 12.1	- 13.4	- 13.3	- 11.0	- 11.4	- 11.8	12.9	27.78	84.5
	- 11.0	- 7.5	- 5.5	- 2.8	8.8	27.1			
	53.9	61.3	71.1	63.4	47.3	36.4			
	28.8	19.8	4.6	- 3.5	- 4.5	- 4.5			
20	- 4.6	- 6.0	- 5.1	- 3.6	.2	.1	13.1	18.31	53.8
	1.3	.8	2.4	3.2	9.3	18.0			
	27.8	40.3	47.7	46.5	46.8	38.7			
	28.3	17.2	5.0	- 1.5	- .5	2.7			
21	4.8	3.0	5.1	7.0	8.3	8.4	9.9	16.62	61.1
	7.4	7.6	11.2	14.4	14.8	18.2			
	29.7	40.2	39.4	33.2	31.0	18.5			
	8.6	- 2.7	- 14.5	- 20.9	- 18.0	- 16.8			
22	- 15.4	- 11.1	- 7.2	- 5.0	- 4.0	- 4.6	3.9	14.30	.0
	- 3.5	- 2.6	- .3	3.7	9.5	19.8			
	30.5	36.0	35.9	.0	.0	.0			
	7.9	.5	- 6.2	- 3.6	1.0	1.6			
23	- 4.9	- 4.0	- 5.3	6.1	8.5	6.6	4.2	6.73	.0
	7.5	9.6	14.1	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
24	.0	.0	.0	.0	.0	.0	- 6.2	10.68	.0
	.0	.0	.0	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
	13.1	2.8	- 8.3	- 16.3	- 15.1	- 13.1			

FEBRUARY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	- 10.7 -	6.9 -	4.9 -	6.5 -	17.4 -	15.3	- 4.5	14.80	55.5
	- 21.3 -	19.1 -	16.5 -	10.5 -	4.0 -	.9			
	2.7	10.2	19.2	25.0	31.5	16.9			
	- .5 -	6.5 -	14.5 -	16.1 -	16.7 -	24.0			
26	- 38.8 -	47.1 -	40.9 -	32.0 -	27.7 -	27.0	- 10.0	21.05	72.8
	- 25.5 -	21.9 -	18.1 -	11.1 -	8.0 -	4.0			
	6.3	18.3	23.3	25.6	20.1	20.0			
	10.2 -	.7 -	11.5 -	15.4 -	16.4 -	18.8			
27	- 16.6 -	15.0 -	13.6 -	13.9 -	14.9 -	16.5	3.9	20.98	61.8
	- 15.5 -	12.6 -	11.3 -	8.1 -	6.1 -	.4			
	16.1	28.4	32.1	36.4	42.4	45.2			
	34.3	18.9	4.1 -	5.6 -	6.3 -	6.9			
28	- 9.4 -	12.0 -	11.5 -	10.6 -	10.7 -	13.2	14.9	32.45	95.1
	- 14.0 -	12.7 -	11.4 -	10.3	.1	17.2			
	36.2	53.3	69.0	80.6	81.1	66.7			
	48.0	13.2	5.2	.2	2.5	.7			

HOURLY MEAN
DURING THE MONTH

- 9.4 -	8.4 -	7.4 -	4.3 -	4.4 -	3.6
- 2.9 -	2.2 -	.5	2.6	9.3	18.6
30.9	41.3	48.5	52.9	50.5	42.3
28.3	17.1	3.8 -	2.9 -	4.0 -	4.9

MONTHLY MEAN 11.3

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

MARCH 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	- 3.5 -	3.2 -	2.7 -	3.3 -	6.2 -	8.8	16.1	27.31	78.8
	- 7.0 -	6.0 -	6.2 -	.8	8.0	17.7			
	33.2	53.2	66.3	70.1	69.2	55.9			
	42.2	22.5	3.2 -	2.0 -	1.7 -	3.7			
2	- 5.5 -	8.2 -	9.0 -	5.9 -	4.6 -	7.9	14.3	25.07	71.1
	- 7.1 -	4.2 -	2.4	2.9	12.0	18.5			
	32.3	47.8	62.1	61.6	60.5	50.2			
	38.2	20.6	2.8 -	4.2 -	3.9 -	4.3			
3	- 7.5 -	10.4 -	9.9 -	8.8 -	6.5 -	3.2	15.0	24.82	.0
	- 2.2 -	.8	3.4	8.2	12.6	16.6			
	32.2	53.1	63.7	65.2	56.8	43.3			
	33.3	.0	6.5	1.8	.0 -	2.5			
4	- 6.3 -	12.0 -	14.4 -	9.4 -	8.5 -	9.3	11.6	22.62	76.6
	- 7.3 -	3.8	.3	5.6	10.3	17.1			
	32.2	55.9	62.2	48.7	42.9	33.6			
	27.2	15.8	2.1 -	.7	1.1 -	4.2			
5	- 11.8 -	13.9 -	6.5 -	8.0 -	12.4 -	19.0	8.3	25.87	.0
	- 14.9 -	9.4 -	6.1 -	6.1	.0	15.6			
	33.3	48.1	72.0	61.0	40.2	25.1			
	16.1	12.2	1.5 -	9.6	.0 -	17.3			
6	- 19.1 -	15.0 -	11.6 -	17.4 -	17.5 -	16.2	8.9	27.74	86.3
	- 12.0 -	12.9 -	9.7 -	4.0	2.5	15.3			
	33.1	41.5	58.6	67.2	64.3	45.5			
	30.2	9.5 -	6.5 -	7.5 -	2.3 -	3.4			
7	- 6.9 -	9.6 -	9.8 -	7.2 -	5.8 -	6.8	16.6	27.76	82.5
	- 5.6 -	4.5 -	4.2	.1	7.5	22.9			
	36.8	52.7	68.1	72.7	65.4	57.3			
	43.0	24.3	8.1	.0	.9	.0			
8	- 4.5 -	7.4 -	7.8 -	5.4 -	4.3 -	3.1	16.6	25.50	76.2
	- 4.2 -	5.9 -	3.9 -	1.0	1.3	8.7			
	22.7	40.4	58.6	68.4	64.6	55.1			
	49.9	38.1	16.9	11.8	7.0	3.2			

MARCH 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	1.9 -	4.6 -	8.5 -	8.1 -	5.2 -	5.9	- 2.0	20.19	81.6
	- 1.9 -	- 1.3 -	.9 -	4.1 -	2.0	3.6			
	4.3	22.2	27.6	34.5	39.6	16.6			
	.0 -	13.0 -	37.3 -	42.0 -	33.9 -	28.8			
10	- 12.3 -	32.9 -	25.8 -	23.5 -	23.1 -	22.1	- 4.9	18.71	65.7
	- 21.0 -	17.1 -	16.2 -	14.7 -	12.7 -	13.4			
	- 6.9	10.1	26.2	32.8	32.3	25.4			
	13.8	5.1 -	2.8 -	6.7 -	6.4 -	5.9			
11	- 7.0 -	9.8 -	8.3 -	7.3 -	6.8 -	7.9	13.6	27.86	83.9
	- 8.5 -	8.2 -	5.7 -	1.0	5.7	15.1			
	30.1	48.7	68.6	74.1	69.2	53.9			
	30.8	11.8	.6 -	2.8 -	3.5 -	4.2			
12	- 6.6 -	8.8 -	8.1 -	7.5 -	6.9 -	7.6	13.0	23.85	71.6
	- 5.5 -	4.2 -	2.9	.6	1.1	6.0			
	20.8	43.2	53.8	62.8	61.9	49.8			
	35.0	23.4	6.1	.3	3.6	2.3			
13	1.8 -	.3 -	.7 -	1.5 -	1.0 -	5.4	7.5	19.19	.0
	- 3.7 -	.4	3.1	4.3	3.8	4.5			
	10.3	29.8	48.8	50.2	50.3	.0			
	.0	.0 -	11.0 -	8.3 -	8.3 -	9.6			
14	- 9.8 -	7.3 -	6.2 -	5.6 -	5.9 -	9.6	5.2	22.32	.0
	- 7.8 -	7.3 -	6.2 -	2.0	2.7	8.8			
	23.8	43.7	59.2	64.6	.0	.0			
	.0	2.6 -	1.3 -	6.9 -	7.9 -	13.0			
15	- 13.0 -	9.6 -	6.1 -	6.3 -	7.8 -	7.7	12.7	19.68	65.1
	- 4.5 -	1.8	.7	5.0	10.7	18.8			
	33.3	42.7	52.1	50.5	43.6	33.9			
	21.4	11.3	10.7	9.5	9.6	7.7			
16	3.2 -	1.2 -	1.0	1.4	.6 -	.2	24.6	25.02	74.5
	3.2	5.4	7.5	11.9	21.5	32.6			
	45.0	61.4	72.7	73.3	66.1	55.3			
	43.9	32.5	23.2	17.3	9.6	6.2			

MARCH 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1 7 13 19	2 8 14 20	3 9 15 21	4 10 16 22	5 11 17 23	6 12 18 24			
17	2.5 1.7 34.1 44.8	1.5 2.4 50.7 30.3	1.6 4.7 63.8 17.3	7.2 8.1 64.2 7.8	4.8 12.8 56.9 7.5	6.0 20.0 57.5 7.8	21.5	21.94	62.7
18	4.1 - 1.7 1.3 3.8	2.1 - 3.1 3.8 - 9.0	5.0 - 7.6 - .2 - 23.1	3.5 - 3.8 - 3.8 - 28.7	2.7 - 1.5 - 4.5 - 29.8	.9 - 1.1 - 9.9 - 29.4	- 4.4	11.24	39.7
19	- 37.5 - 24.3 5.4 - 27.2	- 41.6 - 18.3 17.8 - 37.4	- 36.1 - 17.8 18.5 - 38.6	- 27.3 - 17.3 17.7 - 53.6	- 25.6 - 12.3 4.6 - 51.7	- 28.0 - 6.2 - 10.4 - 40.6	- 20.3	20.81	72.0
20	- 45.2 - 28.9 5.1 - 13.1	- 49.2 - 22.2 16.5 - 28.8	- 43.8 - 17.4 27.2 - 36.2	- 27.6 - 14.5 24.0 - 33.8	- 28.0 - 17.7 15.8 - 30.2	- 33.1 - 8.8 9.5 - 34.9	- 17.3	21.99	76.4
21	- 39.3 - 26.8 28.0 7.5	- 40.0 - 24.6 34.5 - 13.0	- 25.1 - 21.5 35.0 - 29.1	- 30.5 - 13.1 33.1 - 34.3	- 25.8 - 1.3 30.2 - 31.0	- 25.8 10.8 23.1 - 33.8	- 8.9	26.08	75.1
22	- 36.4 - 22.0 5.8 13.6	- 38.0 - 23.6 10.2 - .5	- 32.4 - 20.9 27.2 - 7.0	- 32.1 - 18.9 33.2 - 11.5	- 28.7 - 19.6 32.5 - 12.3	- 24.0 - 15.5 24.4 - 12.4	- 9.2	21.39	71.2
23	- 11.4 - 5.9 15.6 18.2	- 14.3 - 4.1 27.0 - .9	- 12.6 - 1.3 40.2 - 16.8	- 10.6 2.8 46.6 - 28.9	- 10.0 4.6 39.2 - 25.4	- 8.1 9.2 33.7 - 14.3	3.1	20.85	75.4
24	- 12.6 - 12.0 30.8 15.0	- 18.2 - 8.9 41.6 1.0	- 17.8 - 7.0 44.2 - 8.8	- 12.7 - 4.1 47.8 - 9.3	- 9.8 2.1 40.3 - 5.1	- 9.0 13.1 30.0 - 2.2	5.3	21.20	66.0

MARCH 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	- 3.9 -	5.3 -	5.0 -	6.4 -	6.1 -	10.5	15.0	26.93	80.8
	- 9.3 -	3.4 -	1.3	2.6	8.1	17.5			
	38.0	62.4	70.3	67.4	65.1	47.6			
	25.7	9.5	2.3 -	1.3 -	1.0 -	2.0			
26	- 5.8 -	7.1 -	6.7 -	5.5 -	3.4 -	4.0	19.2	27.85	85.7
	- 4.8 -	2.2 -	.8	2.3	6.5	10.7			
	32.0	56.3	67.8	72.7	78.6	62.3			
	40.5	26.6	16.1	12.2	13.6	2.8			
27	- 4.3 -	7.8 -	8.5 -	12.6 -	10.4 -	9.1	3.9	17.79	61.5
	- 6.8 -	9.5 -	10.2	2.3	4.2	9.1			
	14.0	35.1	31.7	48.9	40.4	17.1			
	5.9 -	.4 -	7.9 -	8.7 -	8.1 -	11.3			
28	- 15.5 -	19.0 -	19.3 -	15.8 -	13.5 -	10.3	- 6.2	16.80	56.5
	- 11.2 -	14.3 -	16.6 -	15.0 -	13.5 -	16.5			
	- 7.6	6.5	19.9	31.9	37.2	25.0			
	1.0 -	14.1 -	17.5 -	16.0 -	16.2 -	18.8			
29	- 19.2 -	19.3 -	19.1 -	13.5 -	10.4 -	9.6	.5	17.38	55.6
	- 13.8 -	10.7 -	6.9 -	4.4 -	5.0	3.6			
	15.2	20.5	21.6	31.0	36.2	34.0			
	20.3	1.2 -	9.5 -	12.5 -	8.5 -	8.9			
30	- 12.8 -	13.3 -	8.6 -	1.5 -	7.5 -	10.8	9.8	31.64	95.6
	- 10.4 -	13.7 -	11.1	11.0	23.9	31.0			
	43.1	55.7	62.6	68.6	68.2	52.6			
	15.8 -	13.5 -	20.3 -	27.0 -	23.7 -	23.0			
31	- 36.3 -	32.4 -	24.9 -	24.4 -	23.2 -	23.5	- 2.6	23.53	79.2
	- 21.9 -	17.9 -	14.9 -	10.0 -	4.5	.1			
	14.8	29.6	36.3	38.6	42.9	34.3			
	16.0	.8 -	7.6 -	11.0 -	11.0 -	12.8			

HOURLY MEAN
DURING THE MONTH

- 12.2 -	14.7 -	12.5 -	10.7 -	10.2 -	11.0
- 9.9 -	8.2 -	6.4 -	2.1	2.4	9.3
21.9	37.5	48.0	50.9	47.0	36.3
21.1	5.9 -	5.2 -	9.8 -	8.9 -	10.0

MONTHLY MEAN 6.0

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

APRIL 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	- 17.0 -	18.9 -	14.5 -	13.5 -	14.7 -	16.1	- 2.5	25.17	98.6
	- 11.5 -	9.0 -	7.5	4.3	8.8	1.1			
	2.2	17.4	24.1	27.0	44.9	42.1			
	28.9	7.3 -	36.1 -	50.7 -	53.7 -	20.8			
2	- 37.0 -	36.5 -	3.9 -	5.6 -	21.4 -	18.5	- 8.1	23.29	81.3
	- 18.1 -	8.5 -	15.5 -	9.6 -	6.3 -	2.6			
	3.6	10.3	32.0	41.8	43.3	17.6			
	- 2.0 -	19.4 -	34.9 -	38.0 -	34.5 -	31.0			
3	- 31.0 -	27.6 -	18.9 -	18.4 -	16.1 -	12.7	- 3.6	18.72	.0
	- 20.1 -	16.0 -	12.7 -	10.4 -	3.9	1.3			
	.0	24.5	29.7	33.1	32.4	22.8			
	4.3 -	6.4 -	11.0 -	11.7 -	7.1 -	6.5			
4	- 10.5 -	12.1 -	11.6	7.3	7.6 -	5.0	2.0	17.88	62.6
	- 5.8 -	4.2 -	6.1 -	4.6	1.5	12.6			
	40.5	34.9	30.3	24.6	23.2	15.5			
	4.3 -	14.4 -	22.1 -	19.1 -	18.0 -	20.3			
5	- 22.0 -	23.1 -	23.9 -	20.2 -	14.4 -	13.6	- 3.0	21.49	69.5
	- 16.8 -	19.2 -	17.5 -	13.8 -	7.0	2.5			
	14.8	22.7	43.6	45.7	34.6	23.8			
	5.2 -	7.9 -	20.4 -	18.8 -	15.2 -	11.7			
6	- 21.3 -	26.8 -	20.9 -	13.0 -	11.4 -	16.6	- 7.5	13.87	53.6
	- 10.0 -	10.0 -	12.7 -	12.5 -	10.0 -	5.2			
	4.3	11.1	24.5	26.8	12.1	3.1			
	- 6.6 -	15.6 -	19.4 -	19.0 -	15.4 -	16.4			
7	.0	.0	.0 -	20.4 -	20.7 -	20.2	- 3.6	17.70	.0
	- 17.0 -	14.8 -	14.0 -	7.1 -	1.2	7.5			
	16.2	24.2	27.4	30.8	23.7	5.4			
	- 8.4 -	21.4 -	20.6 -	18.1 -	14.0 -	13.1			
8	- 14.4 -	15.2 -	11.5 -	13.1 -	18.0 -	19.4	2.1	24.71	74.6
	- 16.7 -	15.5 -	12.3 -	6.0	1.1	13.1			
	23.5	39.6	53.3	54.0	44.9	31.6			
	10.6 -	5.0 -	19.0 -	19.9 -	15.4 -	20.6			

APRIL 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	- 21.8 -	22.4 -	9.5 -	11.1 -	8.0 -	11.5	- .1	18.79	64.6
	- 13.0 -	10.4 -	8.2 -	5.5 -	.7	5.2			
	11.5	24.8	38.1	42.2	37.0	21.5			
	1.5	6.2	13.6	18.5	12.2	12.6			
10	- 10.1 -	15.6 -	16.6 -	11.7 -	11.5 -	11.0	- 1.0	18.49	60.8
	- 11.7 -	7.7 -	5.6 -	2.8	3.1	10.8			
	17.7	28.5	35.0	35.7	29.9	17.2			
	.8	16.3	24.3	25.1	17.8	15.1			
11	- 17.4 -	17.9 -	11.5 -	12.6 -	10.3 -	9.6	2.0	26.29	90.6
	- 11.3 -	9.6 -	8.8 -	5.7	4.4	13.6			
	29.6	42.7	52.9	57.7	49.1	25.0			
	6.6	10.7	21.7	26.2	27.9	32.9			
12	- 35.8 -	36.1 -	30.8 -	12.4 -	14.1 -	12.8	- 1.1	23.55	81.7
	- 14.6 -	13.4 -	11.6 -	6.8 -	2.4	5.7			
	18.0	38.6	45.6	44.6	38.4	24.9			
	4.9	6.1	11.2	13.8	12.6	13.4			
13	- 16.1 -	17.7 -	17.9 -	14.8 -	13.8 -	13.4	6.1	24.49	.0
	- 12.8 -	9.5 -	6.1 -	.5	9.4	20.1			
	35.9	50.6	58.8	61.1	.0	28.3			
	19.3	3.7	5.8	6.1	6.0	6.9			
14	- 8.7 -	11.8 -	9.7 -	7.4 -	4.3 -	3.9	12.5	20.51	65.7
	- 3.0 -	5.2	9.7	11.7	15.8	26.7			
	39.4	46.8	52.4	54.0	45.4	25.3			
	10.2	1.6	.2	1.6	1.8	.9			
15	- 1.8 -	1.7 -	2.5 -	2.4 -	3.6 -	4.1	16.2	22.12	.0
	- 3.2 -	.0	.0	4.5	8.2	19.9			
	36.6	55.7	56.2	52.3	51.8	22.5			
	42.6	4.4	5.5	6.5	15.7	18.3			
16	15.6	12.3	10.8	15.5	12.9	11.1	27.6	22.71	78.6
	14.1	15.2	18.0	23.1	26.4	33.6			
	49.6	55.0	61.4	72.4	77.3	60.2			
	41.7	23.8	9.6	1.1	2.9	1.2			

APRIL 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	- 13.0 -	23.5 -	28.2 -	17.9 -	23.7 -	27.6	- 7.0	18.96	.0
	- 24.1	.0 -	14.1 -	7.4	.4	3.7			
	- 13.8 -	24.7	31.2	29.1	21.3	6.5			
	- 7.3 -	16.8 -	24.8 -	21.3 -	20.6 -	21.1			
18	- 23.7 -	25.2 -	27.9 -	27.1 -	24.4 -	21.5	- 8.2	19.68	71.0
	- 17.4 -	15.0 -	11.1 -	6.5	.9	11.7			
	- 21.0 -	26.6	24.0	23.7	18.3	5.5			
	- 7.1 -	14.9 -	14.8 -	20.3 -	28.4 -	44.4			
19	- 58.9 -	61.9 -	50.6 -	51.4 -	55.0 -	42.5	- 28.4	25.78	.0
	- 36.4	.0	13.6 -	26.7 -	27.4 -	20.3			
	- 5.9 -	15.8	20.3	14.7	2.5	19.2			
	- 24.6 -	36.9 -	46.2 -	53.7 -	53.8 -	44.7			
20	- 38.9 -	37.5 -	29.9 -	21.4 -	24.0 -	23.3	- 15.9	20.61	66.6
	- 23.1 -	25.3 -	22.0 -	14.4 -	9.1 -	1.5			
	- 11.3 -	20.1	27.7	25.4	11.5 -	8.5			
	- 26.9 -	37.6 -	38.9 -	38.9 -	29.1 -	28.1			
21	- 34.4 -	40.9 -	38.5 -	35.1 -	35.0 -	35.2	- 14.3	22.02	.0
	- 30.5 -	27.2 -	25.1 -	22.3 -	14.4 -	4.0			
	- 9.9 -	26.0	35.7	25.3	8.8 -	7.8			
	- .0 -	37.4 -	15.3 -	9.2 -	9.6 -	11.8			
22	- 14.6 -	16.3 -	18.4 -	17.6 -	9.3 -	7.9	5.3	26.66	85.3
	- 5.4 -	7.1 -	7.2	14.7	20.0	24.5			
	- 47.6 -	53.2	48.9	60.0	40.2	17.4			
	- 4.6 -	14.0 -	23.6 -	25.3 -	21.6 -	14.8			
23	- 11.4 -	11.3	2.0	6.8	10.5	15.8	- 5.4	29.82	.0
	- .0	.0	6.8	.0	.0	18.9			
	- 31.6 -	41.4	44.1	24.0 -	2.1 -	23.8			
	- 45.2 -	49.9 -	47.9 -	43.4 -	38.1 -	36.3			
24	- 11.8 -	52.8 -	50.7 -	39.7 -	.0	.0	- 18.3	20.19	.0
	- .0	.0	.0 -	21.8 -	11.1 -	2.7			
	- 6.0 -	9.7	10.7	9.3 -	1.4 -	10.6			
	- 22.1 -	28.7 -	39.0 -	36.9 -	28.5 -	31.3			

APRIL 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	- 22.3 -	20.4 -	24.6 -	14.3 -	17.5 -	26.5	- 7.6	21.23	64.1
	- 24.7 -	23.7 -	21.7 -	15.0 -	1.0	11.3			
	24.4	31.0	36.2	33.8	18.9	3.7			
	- 7.7 -	20.4 -	27.9 -	26.9 -	24.5 -	23.1			
26	- 20.7 -	20.0 -	18.8 -	19.3 -	17.5 -	15.9	- 1.6	20.24	63.0
	- 16.1 -	14.4 -	12.7 -	7.5	2.3	11.2			
	19.2	32.4	42.3	41.9	27.9	13.6			
	3.5 -	6.6 -	16.0 -	18.5 -	14.1 -	13.3			
27	- 16.8 -	17.0 -	16.6 -	15.1 -	14.5 -	11.1	4.7	23.09	70.6
	- 11.3 -	8.5 -	6.9 -	2.5	9.4	23.5			
	35.2	43.9	53.5	49.9	37.6	21.8			
	7.8 -	4.7 -	12.3 -	12.9 -	10.4 -	9.8			
28	- 11.5 -	11.0 -	10.9 -	9.9 -	11.1 -	8.5	2.9	19.25	61.9
	- 10.1 -	8.3 -	8.0 -	4.0	3.7	14.3			
	23.3	31.7	41.7	44.4	34.5	23.0			
	10.0 -	4.4 -	14.1 -	17.5 -	13.8 -	13.4			
29	- 16.5 -	17.1 -	15.5 -	14.3 -	11.2 -	9.5	1.9	15.10	46.8
	- 9.9 -	10.0 -	5.1	.1	4.0	8.8			
	13.5	26.5	28.2	28.6	29.8	17.3			
	12.7	7.0 -	3.5 -	5.9 -	5.0 -	7.3			
30	- 12.6 -	14.5 -	9.5 -	5.6 -	4.2 -	3.2	7.7	13.69	.0
	- 4.0 -	6.6 -	5.0	5.3	.0	14.5			
	21.6	26.6	32.9	30.0	22.6	12.7			
	17.4	10.1	9.0	12.8	14.1	11.7			

HOURLY MEAN
DURING THE MONTH

- 19.1 -	22.0 -	18.3 -	14.5 -	13.7 -	13.5
- 13.7 -	10.9 -	7.6 -	5.1	.9	9.5
21.2	31.2	38.1	38.1	29.4	14.6
2.7 -	11.4 -	19.0 -	20.2 -	17.0 -	16.3

MONTHLY MEAN 1.5

TOTAL FIELD INTENSITY
MEAN VALUES FOR PERIODS
OF SIXTY MINUTES

MAY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
1	7.7	5.6	2.7	6.7	9.5	12.0	22.0	28.53	.0
	14.4	16.2	20.1	30.8	43.9	.0			
	56.6	65.6	72.8	69.5	57.2	41.5			
	28.7	22.1	6.5	25.5	17.8	27.7			
2	- 19.1	- 26.8	- 18.7	- 17.6	- 9.9	- 8.3	- 10.5	21.59	71.7
	- 18.1	- 11.4	- .6	2.7	8.7	4.0			
	15.2	22.3	21.9	25.1	13.7	5.0			
	- 20.5	- 36.8	- 37.2	- 42.9	- 46.4	- 46.6			
3	- 63.0	- 60.1	- 76.5	- 80.6	- 95.2	- 81.3	- 66.1	12.14	.0
	- 56.5	- 63.5	- 63.2	- 67.4	- 57.8	- 58.2			
	- 44.8	- 57.5	- 66.5	.0	.0	.0			
	.0	.0	.0	.0	.0	.0			
4	.0	.0	.0	.0	.0	.0	- 32.5	22.97	.0
	.0	.0	.0	.0	.0	.0			
	- 16.6	- 16.5	- 7.5	- 7.8	- 21.2	- 36.3			
	- 52.0	- 63.9	- 71.1	.0	.0	.0			
5	.0	.0	.0	.0	.0	.0	- 14.7	31.34	.0
	.0	.0	.0	.0	.0	4.3			
	10.1	19.3	28.0	24.4	11.7	11.0			
	- 26.4	- 43.1	- 50.9	- 52.2	- 51.2	- 54.5			
6	- 47.0	- 43.2	- 42.6	- 34.9	- 37.1	- 28.6	- 30.2	16.23	51.6
	- 31.1	- 32.5	- 31.1	- 29.3	- 25.1	- 19.1			
	- 12.0	- 4.7	- .3	1.7	4.4	20.6			
	- 38.0	- 48.4	- 48.6	- 48.5	- 49.6	- 49.9			
7	- 48.2	- 41.0	- 46.0	- 53.6	- 40.9	- 45.4	- 33.2	12.86	48.1
	- 42.2	- 38.7	- 42.6	- 33.1	- 30.3	- 26.3			
	- 22.4	- 14.8	- 8.8	- 5.5	- 10.7	- 20.9			
	- 31.8	- 39.3	- 40.5	- 40.2	- 37.3	- 36.4			
8	- 36.2	- 35.4	- 33.0	- 32.4	- 33.6	- 28.9	- 24.0	12.24	.0
	- 25.7	- 24.8	- 22.9	- 23.3	- 19.4	- 14.0			
	- 7.4	- 3.2	- 4.2	- 4.2	- 11.3	- 22.6			
	- 36.5	- 40.6	- 43.6	.0	.0	.0			

MAY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
9	- 32.1	.0	.0	.0	.0	.0	- 5.4	19.56	.0
	.0	.0	.0	.0	.0	4.5			
	8.3	15.2	25.6	25.4	12.8	2.5			
	- 10.2	- 20.8	- 25.9	- 27.0	- 24.1	- 20.7			
10	- 23.4	- 21.7	- 23.9	- 22.3	- 22.1	- 19.5	- 13.1	13.22	48.1
	- 18.3	- 16.6	- 12.8	- 7.9	- 6.0	.2			
	4.0	9.7	19.2	10.7	4.1	15.0			
	- 14.1	- 27.0	- 28.9	- 28.6	- 24.3	- 21.9			
11	- 16.5	- 25.0	- 30.4	- 24.0	- 22.6	- 20.8	- 11.3	18.93	.0
	- 21.6	.0	- 18.1	- 15.1	- 8.2	2.0			
	10.7	20.8	25.1	25.7	12.6	1.3			
	- 11.3	- 18.1	- 21.0	- 27.8	- 42.6	- 35.9			
12	- 28.3	- 26.3	- 24.0	- 20.5	- 20.4	- 12.8	- 11.5	15.87	56.2
	- 17.1	- 16.5	- 14.0	- 10.1	- 6.5	.8			
	4.0	8.5	18.6	21.9	15.4	2.1			
	- 9.2	- 21.6	- 26.8	- 34.3	- 29.3	- 27.9			
13	- 31.2	- 28.8	- 26.5	- 21.1	- 35.6	- 30.8	- 18.4	17.62	61.6
	- 18.8	- 24.0	- 24.6	- 21.3	- 12.0	.0			
	8.0	12.8	15.2	8.3	.1	6.9			
	- 14.3	- 26.4	- 42.2	- 46.5	- 41.6	- 33.9			
14	- 33.6	- 23.9	- 26.8	- 25.8	- 23.4	- 21.8	- 20.0	24.08	83.0
	- 21.3	- 20.7	- 17.2	- 11.9	- 1.7	11.5			
	23.2	25.3	17.6	9.8	11.0	24.0			
	- 36.7	- 49.9	- 50.2	- 52.1	- 56.9	- 57.6			
15	- 61.4	- 52.5	- 46.3	- 38.3	- 34.9	- 32.1	- 23.3	21.30	75.5
	- 29.5	- 26.9	- 23.9	- 19.9	- 10.6	- 2.6			
	5.3	11.2	14.1	14.0	1.8	9.7			
	- 19.7	- 34.1	- 44.3	- 41.6	- 37.3	- 39.2			
16	- 32.5	- 31.2	- 27.8	- 27.5	- 37.2	- 18.7	- 11.9	17.56	57.7
	- 16.1	- 17.4	- 15.8	- 11.5	- 3.2	7.4			
	8.8	13.2	20.3	20.5	12.3	1.4			
	- 6.6	- 15.6	- 21.0	- 27.7	- 28.9	- 30.3			

MAY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	1	2	3	4	5	6			
	7	8	9	10	11	12			
	13	14	15	16	17	18			
	19	20	21	22	23	24			
17	- 35.0 -	31.8 -	42.6 -	42.9 -	37.8 -	23.4	- 20.0	18.44	62.1
	- 27.8 -	24.2 -	20.7 -	17.8 -	9.3 -	.4			
	6.2	12.3	19.2	10.6	5.2	12.5			
	- 19.1 -	26.0 -	37.8 -	41.7 -	36.8 -	36.6			
18	- 37.1 -	32.3 -	30.8 -	23.4	.0	.0	- 4.6	21.23	.0
	.0	.0	.0	.0	.0	2.3			
	9.7	20.1	28.6	31.2	23.0	9.6			
	= 2.7 -	13.1 -	17.8 -	17.8 -	14.1 -	13.4			
19	- 17.3 -	22.1 -	32.9 -	33.0 -	26.4 -	24.1	- 15.9	12.46	39.8
	- 18.2 -	18.4 -	16.4 -	14.5 -	8.1	.1			
	2.3	2.9	4.4	6.8	.0	10.1			
	- 18.9 -	26.4 -	28.3 -	30.3 -	27.1 -	25.4			
20	- 24.6 -	15.5 -	22.6 -	26.3 -	24.7 -	24.4	- 3.5	17.21	50.1
	- 24.1 -	22.0 -	17.3 -	17.0 -	11.2 -	3.4			
	4.3	12.1	16.5	10.0	.7	4.7			
	12.7	15.6	19.3	23.8	16.4	13.7			
21	- 21.5 -	19.1 -	21.6 -	23.0 -	22.5 -	18.0	- 10.7	18.21	57.9
	- 17.6 -	17.7 -	16.3 -	12.1 -	1.4	8.8			
	17.5	23.6	26.4	23.0	10.8	10.7			
	- 24.8 -	27.7 -	30.8 -	31.4 -	28.4 -	22.1			
22	- 27.9 -	30.1 -	26.1 -	21.3 -	19.3 -	18.3	- 10.2	16.56	56.0
	- 17.1 -	13.7 -	13.1 -	9.0 -	1.9	7.0			
	15.6	25.2	25.9	17.8	1.5	13.6			
	- 22.0 -	24.6 -	23.7 -	22.3 -	17.9 -	15.0			
23	- 14.3 -	12.9 -	10.9 -	8.4 -	3.9 -	9.8	5.2	25.26	.0
	- 7.0 -	4.1 -	3.6	2.3	17.1	31.3			
	45.0	55.8	54.9	47.3	26.5	11.6			
	- 8.2 -	23.5 -	25.8	.0	21.0 -	18.0			
24	- 16.1 -	17.0 -	15.3 -	13.8 -	13.1 -	12.1	- .6	14.68	41.6
	- 11.5 -	10.0 -	6.9	1.5	12.0	19.1			
	23.4	24.7	24.0	22.0	10.9	9.1			
	8.7	11.5	12.9	9.4	9.3	11.5			

MAY 1967

S. JOSE DOS CAMPOS
F 24,000.0 GAMMAS

DAY	HOURS OF DAY						MEAN	INDEX	RANGE
	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	- 16.3 - - 7.9 - 64.5 .0	- 17.8 - 5.0 - 72.1 .0	- 17.0 - 5.1 - .0 .0	- 14.0 - 5.1 .0 .0	- 13.0 - 20.8 .0 .0	- 11.0 37.2 - 31.1 .0	3.4	29.95	.0
26	.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	.00	.0
27	.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	.00	.0
28	.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	.00	.0
29	.0 .0 .0 .0	.0 .0 .0 .0	.0 .0 .0 .0	.0 .0 .0 .0	.0 .0 .0 .0	.0 .0 .0 .0	- 84.7	3.90	.0
30	- 76.7 - - 43.7 - - 30.7 - .0	- 73.1 - 62.7 - 28.5 - .0	- 71.1 - 59.6 - 18.7 - .0	- 69.3 - 54.2 - 22.1 - .0	- 66.4 - 43.4 - 28.6 .0	- 64.6 34.8 .0 .0	- 49.9	19.09	.0
31	.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	.00	.0

HOURLY MEAN
DURING THE MONTH

- 31.3 - 29.6 - 30.8 - 29.0 - 28.6 - 24.6
- 21.6 - 21.6 - 19.3 - 15.5 - 6.9 - 1.2
8.0 13.4 14.9 16.1 4.7 - 6.9
- 16.2 - 26.1 - 33.4 - 33.9 - 32.2 - 31.3

MONTHLY MEAN 17.1

Security Classification

DD FORM 1473
1 NOV 65

Unclassified

Security Classification

~~Unclassified~~

Security Classification

14.	KEY WORDS	LINK A		LINK B		LINK C	
		ROLE	WT	ROLE	WT	ROLE	WT
	Geomagnetism Total Field Brazilian Anomaly						

~~Unclassified~~

Security Classification