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2001 年 8 月

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《太阳地球物理资料》各表表头内容说明

注:各表按目录顺序依次说明,若各表内容有相同的则只作一次说明。

太阳黑子相对数与面积数表

Day:	每天观测日期	Ha 太阳耀斑表	
Gro:	每天在日面上的黑子群总数	Sta:	台站
Relative—Num— bers:	每天的黑子相对数值	Start (UT):	耀斑开始时间(UT 为世界时,其中“E”为小于此时间。)
N. H.:	每天北半球的黑子相对数	Max (UT):	耀斑的极大时间(“U”为接近此时间,不确定。)
S. H.:	每天南半球的黑子相对数	End (UT):	耀斑的结束时间(“D”为大于此时间。)
Sum:	南、北半球黑子相对数的总和	Cen	日心距,即 r/R 。
Sunspot Areas:	太阳黑子面积数值	Dist:	
Drawing:	手描的	Area	耀斑极大时的面积(S_d 为视面积,单位为太阳圆面积的
N. H.:	每天北半球黑子面积	Measurement	10^{-6} ; S_q 为校正面积,以平
S. H.:	每天南半球黑子面积	Appar Corr	方度为单位。)
Sum:	南、北半球黑子面积的总和	(sd) (sq):	耀斑的级别
太阳黑子观测表		Imp:	耀斑资料类型
Group:	在日面上的黑子群号	Obs	
CMP	黑子群过日面中心经圈日期,	Type:	
Mo—Day:	用月—日表示。	A. R.:	耀斑所在活动区的黑子群号
Lat:	黑子群在日面上的纬度	Rem:	备注(记录耀斑发生时的形态)
L:	黑子群在日面上的卡林顿经度		
CMD:	黑子群在日面上的中经距	Ha 耀斑巡视时间表	
Type:	黑子群的 McIntosh 类型	From:	耀斑照相巡视开始时间
r/R :	黑子群在日面上的日心距(以太阳半径为 1)	To:	耀斑照相巡视的结束时间
Corre. Area Sd	黑子群在日面上所占的面积	太阳活动区磁场和速度场的观测表	
whole Max:	(S_d 为视面积,Whole 为校正后的全群面积,Max 为校正后的最大黑子的面积。)	L_o :	每天的日面中心经度
See:	观测时大气视宁静度	Huairou	北京天文台怀柔观测站的
Remarks:	备注(空白表示云南天文台的观测资料,注明 PLAT 的为北京天文馆资料,PURP 为南京紫金山天文台资料。)	Region:	活动区编号
		Data:	取得的磁场资料类型
		太阳射电辐射通量及巡视时间表	
		BEIJ	每天太阳在 2840 MHz 的流量密度(北台 0400 UT 测量,以 $10^{-22} \cdot \text{瓦} \cdot \text{米}^{-2} \cdot \text{赫}^{-1}(\text{s. f. u.})$ 为单位。)
		2840:	每天太阳在 232 MHz 的平均流量密度
		BEIJ	北京天文台 2840 MHz 频率

太阳黑子相对数的平滑值预报表

Time:	预报的时间	BEIJ	每天太阳在 232 MHz 的
R' :	月平滑黑子相对数的预报值	232:	平均流量密度
E' :	预报误差	BEIJ	北京天文台 2840 MHz 频率

From To	巡视时间
2840 :	
BEIJ	北台密云站米波 232 MHz
From To	频率巡视时间
232 :	
太阳射电辐射显著事件表	
Freq:	观测频率
Type:	射电爆发的型别
Duration:	射电爆发的持续时间(以分钟为单位)
Flux Density:	射电爆发的流量密度
Peak:	射电爆发流量的峰值增值
Rel:	射电爆发峰值流量与爆发前流量之比值
Mean:	流量密度的增值对时间求积分再除以爆发持续时间
米波综合孔径射电望远镜 232 MHz 太阳观测表	
Flux of	活动区辐射流量
Source:	(以 $10^{-22} \cdot \text{瓦} \cdot \text{米}^{-2} \cdot \text{赫}^{-1}$ (s. f. u 为单位))
Source	活动区视位置
Position:	(以角分为单位)
Angular Diameter	活动区视角径
of Source:	(以角分为单位)
Solar Seeing	太阳视直径
Diameter:	(以角分为单位)
Patrol Duration	观测时间
Begin End	开始 结束

宇宙线强度表

这部分共有三个表和宇宙线强度图。其中第 1 个表是“超中子堆数据表”，它给出的值是记数率与 1500 的差；第 2 个表是“ μ 介子垂直分量表”它给出的值是记数率与 3000 的差；第 3 个表是“ μ 介子数据表”，它列出的是相对强度与 1000 的差。这三个表的第一行数据是 1—24 小时。

详细说明请见每年第一期。

Explanation of data reports can be found in the first issue of the year.

Mean:	日均值
N:	记录的小时数
Day:	日期
最后四行是仪器全天工作天数的月平均日变化与相应的月均值的差。宇宙线强度图说明请参见每年第 1 期说明。	
突然电离层扰动(D 层)表	
Imp:	级别(最小为 1—级,最大为 3+级。)
SPA:	相位突然异常
LF-SPA:	低频相位突然异常
VLF-SPA:	甚低频相位突然异常
LF-SFA:	低频场强突然异常
地磁活动指数 K 和 A_K 表	
第一行:	以三小时为时段的 K 指数
Sum:	总和
A_K :	A_K 指数
磁暴表	
Time of Magnetic:	磁暴时间
Begining:	开始时间
Ending:	终止时间
h:	小时
m:	分钟
Type:	类型
Sudden Com. Amplitude	急始变幅
D' HnT ZnT:	
Deg. of Acti.:	活动程度
Maximum Acti. on K-scale:	最大活动程度
3 hour Int.:	三小时时段
K Index:	K 指数
Maximum Range	最大幅度
D' HnT ZnT:	

DAILY RELATIVE SUNSPOT NUMBERS AND SUNSPOT AREAS

AUGUST 2001

Day	Gro.	Relative-Numbers			Sunspot Areas		
		N.H.	S.H.	Sum	N.H.	Drawing S.H.	Sum
1	6	38	34	73	256	137	393
2	6	42	36	78	143	78	221
3	8	52	36	88	77	34	111
4	7	65	52	117	323	247	570
5	10	71	78	148	346	362	708
6	9	46	64	110	620	866	1486
7	9	57	54	111	768	1019	1787
8	10	48	56	105	804	1141	1945
9	10	56	47	104	676	585	1261
10	14	73	54	126	416	486	902
11	12	66	68	135	302	566	868
12	11	53	61	115	348	590	938
13	11	49	68	118	201	623	824
14	9	40	89	129	305	514	819
15	12	38	79	118	230	299	529
16	16	48	85	133	330	301	631
17							
18	11	52	51	103	402	61	463
19	11	62	56	118	769	135	904
20	11	51	45	95	326	161	487
21	11	81	37	117	546	191	737
22	10	78	32	110	500	193	693
23	11	73	43	115	276	447	723
24	12	98	44	142	348	875	1223
25	9	66	69	134	244	1103	1347
26	8	46	86	133	275	1250	1525
27	9	36	91	127	110	1107	1217
28	10	42	89	131	465	1136	1601
29	7	37	58	96	636	762	1398
30	8	49	70	119	699	790	1489
31	8	55	76	131	939	824	1763
Mean		55.6	60.3	116.0	422.7	562.8	985.4

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

CMP
Corre. Area
Day Group Mo-Day Lat L CMD Type r/R Sd Whole Max See. Remarks

1.04	356	8- 1.9	-20	286	6E	DAO	0.41	92	51	25	3	PLAT	取象台坐标
359	8- 4.6	-11	251	49E	CAO	0.79	105	86	56	56	3	PLAT	取象台坐标
360	8- 4.9	4	247	54E	DAO	0.82	269	233	164	164	3	PLAT	取象台坐标
362	7-30.2	14	322	24W	AXX	0.43	4	2	2	2	3	PLAT	取北偏坐标
363	8- 3.4	4	266	34E	BXO	0.55	8	5	2	2	3	PLAT	
364	8- 6.4	17	227	75E	AXX	0.97	8	16	8	8	3	PLAT	
2.02	356	2W	FRI	0.43	63	35	7	4					
359	37E	DSI	0.63	67	43	24	4						
360	39E	DSI	0.67	168	113	87	4						
362	41W	CRI	0.66	13	8	6	4						
364	62E	BXI	0.87	13	13	4	4						
365	43E	BXI	0.70	13	9	6	4						
3.04	356	12W	BXI	0.49	17	10	2	3					
359	21E	CRI	0.46	29	17	9	3						
360	25E	DSI	0.46	67	38	31	3						
362	54W	BXI	0.80	13	11	4	3						
364	45E	AXX	0.70	8	6	3	3						
365	29E	CRI	0.54	29	17	7	3						
366	25W	AXX	0.43	8	5	2	3						
367	5E	BXI	0.34	13	7	2	3						取北偏坐标
4.17	356	27W	DAC	0.59	298	185	65	2					
359	5E	DAO	0.32	88	46	29	2						
360	10E	DSO	0.18	113	58	54	2						
362	72W	DRO	0.95	34	56	42	2						
364	31E	CRI	0.54	55	33	15	2						
365	13E	DAC	0.36	328	176	104	2						
367	6W	DRI	0.37	29	16	4	2						
5.10	356	38W	DHI	0.69	357	247	206	4					
359	10W	CSI	0.31	59	31	24	4						
360	3W	CSI	0.03	63	32	25	4						
364	16E	CSI	0.34	202	108	96	3						
365	1E	DSI	0.30	383	201	137	3						
367	19W	DRI	0.45	46	26	9	3						
368	67W	CRI	0.91	21	25	20	3						
369	22W	BXI	0.36	8	5	2	3						

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day								Whole	Max		
370		8- 6.6		-17	224	22E	BXI	0.53	8	5	2	3	
371		8-11.4		-9	161	86E	HRX	0.99	8	28	28	3	
6.05	356					51W	DKC	0.83	681	607	554	3	
	359					23W	CSI	0.43	55	30	26	3	
	360					16W	CRI	0.16	34	17	11	3	
	364					5E	DSI	0.21	240	123	88	3	
	365					10W	EHC	0.32	908	480	306	3	
	367					33W	CRI	0.59	50	31	13	3	
	368					74W	BXO	0.97	8	16	8	3	
	370					8E	CSI	0.41	50	28	23	3	
	371					72E	HHX	0.95	93	154	154	3	
7.03	356					65W	DKC	0.93	521	714	622	3	
	359					36W	CRO	0.60	21	13	10	3	
	360					25W	BXI	0.40	8	5	2	3	
	364					6W	DSI	0.21	278	142	69	3	
	365					25W	EHC	0.45	1022	572	365	3	
	367					47W	CRI	0.76	25	19	13	3	
	370					5W	DSI	0.39	147	80	57	3	
	371					58E	CHI	0.84	210	193	189	3	
	372	8-12.8		7	143	78E	HRX	0.98	21	49	49	3	
8.04	356					80W	DHO	0.99	185	612	515	3	
	359					50W	HRX	0.78	13	10	10	3	
	360					42W	AXX	0.67	4	3	3	3	
	364					21W	DSI	0.37	278	149	97	3	
	365					38W	EHI	0.61	997	628	384	3	
	367					62W	BXI	0.87	8	9	4	3	
	370					17W	DSI	0.48	425	243	197	3	
	371					46E	CHI	0.71	219	156	153	3	
	372					64E	HSX	0.90	21	24	24	3	
	373	8-14.4		-8	121	80E	HRX	0.99	34	111	111	3	取紫台坐标
9.05	359					62W	BXO	0.90	8	9	5	4	
	360					56W	BXI	0.82	8	7	4	4	
	364					35W	DHI	0.56	374	226	148	4	
	365					52W	FHI	0.76	521	400	187	4	
	367					72W	BXI	0.95	8	14	7	4	
	370					30W	DHI	0.59	353	218	205	4	

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP			CMD	Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day	Lat	L					Whole	Max		
371					31E	HHX	0.56	341	206	206	4	
372					49E	HSX	0.75	46	35	35	4	
373					68E	CSI	0.94	93	138	132	4	
374		8-14.9	18	114	76E	AXX	0.97	4	8	8	4	
10.02	359				76W	AXX	0.97	4	8	8	3	
	360				62W	AXX	0.89	4	5	5	3	QDT
	364				46W	DSI	0.71	147	105	66	3	
	365				64W	FHI	0.87	248	255	143	3	
	370				42W	CHI	0.74	307	227	217	3	
	371				19E	HHX	0.41	336	185	185	3	
	372				38E	HSX	0.60	50	31	31	3	
	373				56E	CSI	0.85	63	60	48	3	
	374				64E	BXI	0.89	8	9	5	3	
	375	8- 7.9	11	207	28W	AXX	0.47	4	2	2	3	
	376	8- 9.7	16	184	5W	BXI	0.18	8	4	2	3	
	377	8-10.8	-20	169	10E	AXX	0.47	4	2	2	3	
	378	8-11.4	-3	161	15E	BXO	0.30	8	4	2	3	PLAT
	379	8-11.8	16	156	21E	BXI	0.39	8	5	2	3	
11.06	364				60W	DSI	0.85	84	80	36	3	
	365				74W	FSI	0.94	109	164	94	3	
	370				56W	CSI	0.86	143	141	137	3	
	371				5E	CHI	0.28	370	193	190	3	
	372				23E	HSX	0.39	80	43	43	3	
	373				43E	DRI	0.71	118	84	30	3	
	374				45E	AXX	0.71	4	3	3	3	
	375				41W	AXX	0.66	4	3	3	3	
	376				19W	AXX	0.36	8	5	2	3	
	378				4E	DSI	0.17	286	145	85	3	
	379				10E	AXX	0.24	8	4	2	3	
	380	8-14.1	-17	125	41E	AXX	0.74	4	3	3	3	PLAT 取北馆坐标
12.22	364				73W	CSI	0.95	63	105	91	4	
	365				85W	BXO	0.98	13	36	24	3	PLAT
	370				74W	CSO	0.97	59	113	105	4	
	371				11W	CHO	0.34	219	116	114	4	
	372				7E	HSX	0.13	46	23	23	4	
	373				27E	CSI	0.52	101	59	47	4	
	375				58W	BXO	0.84	8	8	4	4	

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP		L	CMD	Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day	Lat						Whole	Max		
	378				11W	EHX	0.28	568	295	158	4	
	379				6W	BXI	0.18	13	6	2	4	
	381	8-12.1	-9	151	1W	BXI	0.26	13	7	2	4	
	382	8-17.5	11	80	69E	CSO	0.94	114	170	164	4	
13.11	364				85W	AXX	0.99	8	28	14	4	
	370				84W	AXX	0.99	8	28	28	4	
	371				22W	CHI	0.45	286	160	158	4	
	372				5W	HSX	0.08	59	30	27	4	
	373				17E	DRI	0.38	76	41	18	4	
	374				23E	AXX	0.41	8	5	2	4	
	375				67W	AXX	0.91	4	5	5	4	
	378				25W	EHX	0.44	690	383	234	4	
	381				14W	CRI	0.34	21	11	4	4	
	382				57E	CSI	0.83	147	131	127	4	
	383	8-13.9	21	128	9E	AXX	0.29	4	2	2	4	取北馆坐标
14.17	371				37W	HAX	0.64	302	198	198	3	PURP
	372				19W	HSX	0.31	71	38	35	3	PURP
	373				3E	CAO	0.25	76	39	26	3	PURP
	378				41W	EAC	0.66	349	231	117	3	PURP
	381				28W	DSI	0.53	42	25	7	3	PURP
	382				44E	HSX	0.69	260	180	177	3	PURP
	383				2E	AXX	0.25	8	4	2	3	PLAT
	384	8-14.3	-16	123	1E	CRI	0.39	38	21	5	3	PURP
	385	8-20.6	24	39	86E	HRX	0.99	25	83	83	3	PURP
15.08	371				48W	HSX	0.76	181	139	139	5	
	372				30W	HRX	0.49	34	19	19	5	
	373				10W	CSI	0.30	67	35	26	5	
	374				2W	BXO	0.21	8	4	2	5	
	378				52W	ESI	0.78	126	101	67	5	
	379				49W	AXX	0.76	4	3	3	5	
	381				40W	BXI	0.68	13	9	3	5	
	382				31E	HHX	0.51	252	146	146	5	
	384				12W	BXO	0.44	8	5	2	5	
	385				71E	HSX	0.93	42	58	58	5	
	386	8-14.2	-21	124	12W	BXO	0.49	8	5	2	5	
	387	8-15.2	-27	111	2E	BXO	0.55	8	5	3	5	
16.06	371				61W	HSX	0.89	101	108	108	5	

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

		CMP								Corre. Area		Remarks
Day	Group	Mo-Day	Lat	L	CMD	Type	r/R	Sd	Whole	Max	See.	
372					43W	HRX	0.68	17	11	11	5	
373					23W	HRX	0.45	42	24	24	5	
378					64W	ESO	0.90	84	95	76	5	
379					61W	DRI	0.87	34	35	17	5	
381					51W	AXX	0.80	8	7	4	5	
382					19E	CHI	0.32	315	167	164	5	
384					25W	BXO	0.55	8	5	3	5	
385					59E	HSX	0.85	97	92	92	5	
386					25W	CRI	0.60	29	18	16	5	
387					13W	CRI	0.55	38	23	18	5	
388		8-13.7	9	131	32W	AXX	0.52	4	2	2	5	
389		8-15.7	-5	104	5W	BXO	0.21	8	4	2	5	
390		8-17.9	-24	75	24E	BXO	0.61	17	11	5	5	
391		8-21.6	27	26	70E	HRX	0.93	17	23	23	5	
392		8-21.3	-12	30	70E	AXX	0.94	4	6	6	5	
17.00	-											
18.33	373				53W	HRX	0.80	21	18	18	3	
	382				11W	CSO	0.20	231	118	116	3	
	384				53W	BXI	0.84	8	8	4	3	
	385				29E	HSX	0.54	122	72	72	3	
	386				53W	AXX	0.86	4	4	4	3	
	387				42W	BXI	0.78	8	7	3	3	
	391				40E	DRI	0.68	34	23	9	3	
	392				41E	CRO	0.69	25	17	15	3	
	393	8-21.4	16	28	41E	AXX	0.66	4	3	3	3	
	394	8-22.0	-9	21	50E	AXX	0.79	8	7	3	3	
	395	8-22.5	14	14	56E	DKI	0.82	214	186	153	3	
19.12	373				64W	HAX	0.92	25	32	32	4	QDT
	382				20W	HSX	0.34	281	150	150	4	QDT
	385				20E	HSX	0.44	223	124	124	4	QDT
	386				56W	AXX	0.90	4	5	5	4	QDT
	387				51W	AXX	0.87	17	17	4	4	QDT
	391				31E	DAI	0.60	147	92	39	4	QDT
	392				32E	BXO	0.62	17	11	3	4	QDT
	394				40E	AXX	0.70	8	6	6	4	QDT
	395				46E	DKI	0.74	543	400	313	4	QDT
	396	8-15.8	-33	103	44W	CAO	0.85	67	64	48	4	QDT 取青站坐标

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP		L	CMD	Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day	Lat						Whole	Max		
397		8-21.2	22	31	28E	AXX	0.52	4	3	3	4	QDT 取青站坐标
20.10	373				79W	AXX	0.98	4	10	10	3	
	382				35W	HSX	0.56	130	79	79	4	
	384				78W	BXI	0.98	8	20	10	4	
	385				7E	HSX	0.32	189	100	100	4	
	387				65W	AXX	0.95	4	7	7	4	QDT
	391				18E	DSI	0.46	118	66	31	4	
	392				15E	AXX	0.41	8	5	2	4	
	394				25E	HRX	0.51	13	7	7	4	
	395				31E	DSI	0.54	130	77	57	4	
	396				56W	CSI	0.92	88	112	96	4	
	398	8-19.3	14	56	10W	BX0	0.21	8	4	2	4	
21.23	382				49W	HSX	0.75	177	133	133	4	
	385				7W	HSX	0.32	185	98	98	4	
	391				5E	DSI	0.34	143	76	27	4	
	392				1E	AXX	0.32	8	4	2	4	
	394				10E	AXX	0.33	8	4	2	4	
	395				17E	DKI	0.33	467	248	214	4	
	396				70W	AXX	0.97	4	8	8	4	
	398				23W	BXI	0.41	13	7	2	4	
	399	8-21.6	8	25	6E	AXX	0.09	8	4	2	4	
	400	8-25.4	-6	336	55E	AXX	0.83	8	7	4	4	
	401	8-26.8	-28	317	71E	CHD	0.98	71	168	158	4	
22.03	382				60W	HSX	0.85	93	88	88	3	
	385				17W	HSX	0.40	172	94	94	3	
	391				7W	DRI	0.37	93	50	23	3	
	392				11W	AXX	0.36	8	5	2	3	
	394				1W	AXX	0.28	4	2	2	3	
	395				7E	DKI	0.20	463	236	195	3	
	398				33W	DRI	0.54	50	30	17	3	
	399				6W	AXX	0.10	4	2	2	3	
	401				61E	HHX	0.93	88	121	121	3	
	402	8-28.6	-19	294	73E	DRI	0.97	34	65	32	3	
23.22	382				76W	HRX	0.97	17	32	32	3	
	385				33W	HSX	0.57	80	49	49	3	
	391				21W	BX0	0.49	13	7	2	3	

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

		CMP							Corre. Area			
Day	Group	Mo-Day	Lat	L	CMD	Type	r/R	Sd	Whole	Max	See.	Remarks
	392				18W	AXX	0.44	8	5	2	3	PLAT
	395				9W	DHI	0.17	345	175	152	3	
	398				49W	BXI	0.75	13	9	3	3	
	399				22W	AXX	0.37	4	2	2	3	QDT 取青站坐标
	401				47E	CSI	0.84	135	124	120	3	
	402				67E	FSI	0.93	214	294	127	3	
	403	8-18.3	-7	70	66W	CRO	0.90	21	24	19	3	
	404	8-22.8	21	10	3W	AXX	0.24	4	2	2	3	PLAT 取北馆坐标
24.03	382					HRX		8			3	PLAT
	385				43W	HSX	0.69	202	139	139	4	
	391				36W	BXI	0.66	13	8	3	4	
	395				19W	CSI	0.30	307	161	139	4	
	398				61W	CRI	0.86	21	21	17	4	
	401				36E	HSX	0.76	214	165	161	4	
	402				57E	FKI	0.86	698	689	564	4	
	403				76W	BXO	0.95	13	21	7	4	
	404				19W	AXX	0.40	4	2	2	3	QDT
	405	8-24.0	0	354	0W	BXI	0.13	8	4	2	4	
	406	8-25.3	36	337	14E	AXX	0.55	13	8	3	3	QDT 取北馆坐标
	407	8-26.7	16	319	38E	BXI	0.62	8	5	3	4	取北馆坐标
25.01	385				54W	HAX	0.80	109	92	92	3	PLAT
	391				49W	AXX	0.77	4	3	3	3	PLAT
	394				38W	AXX	0.67	8	6	3	4	QDT 取青站坐标
	395				30W	CAO	0.51	235	137	114	3	PLAT
	398				74W	AXX	0.95	4	7	7	3	PLAT
	401				22E	HAX	0.65	299	196	194	3	PLAT
	402				42E	EKI	0.75	1186	891	800	3	PLAT
	406				4E	BXO	0.49	8	5	2	3	PLAT
	408	8-29.5	-19	281	59E	BXO	0.90	8	10	5	3	PLAT 取北馆坐标
26.02	385				67W	HAX	0.91	59	70	70	3	PLAT
	395				44W	CAO	0.68	84	57	32	3	PLAT
	401				10E	HAX	0.57	383	234	229	3	
	402				29E	EKI	0.62	1375	877	694	3	PLAT
	407				9E	AXX	0.22	4	2	2	3	PLAT
	408				45E	BXO	0.78	8	7	3	3	PLAT
	409	8-22.2	-9	19	51W	CAO	0.79	160	132	108	3	PLAT 取北馆坐标
	410	9- 1.0	21	248	70E	HSX	0.97	76	146	146	3	PLAT

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP		L	CMD	Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day	Lat						Whole	Max		
27.06	385				85W	HSX	0.99	21	70	70	3	PURP
	395				60W	DRO	0.85	17	16	8	3	PURP
	401				3W	HSX	0.58	349	214	211	3	PURP
	402				20E	EKI	0.54	1153	685	560	3	PURP
	408				34E	BXI	0.68	21	14	6	3	PURP
	409				69W	DAO	0.94	126	189	126	3	PURP
	410				68E	HSX	0.91	13	15	15	3	PURP
	411	8-22.4	-15	16	62W	AXX	0.90	4	5	5	3	PLAT 取北馆坐标
	412	8-30.7	17	266	48E	CRO	0.74	13	9	3	3	PURP
28.04	395				73W	AXX	0.94	8	13	6	4	PURP
	401				17W	CAI	0.63	260	168	166	4	PURP
	402				7E	EKI	0.46	1351	760	633	4	PURP
	408				19E	BXI	0.52	13	7	2	4	PURP
	409				81W	DRC	0.99	50	167	83	4	PURP
	410				54E	HSX	0.80	252	212	212	4	PURP
	411				78W	AXX	0.99	4	14	14	4	PURP
	412				34E	CRI	0.55	38	23	13	4	PURP
	413	9- 1.7	-17	240	65E	DRO	0.91	17	20	10	4	PURP
	414	9- 3.1	13	221	81E	DSO	0.98	92	217	99	4	PURP
29.11	401				30W	HHX	0.70	227	159	159	3	
	402				7W	FKI	0.45	925	518	487	3	
	408				7E	BXO	0.44	8	5	2	3	PLAT
	410				37E	HHX	0.62	290	185	185	3	
	412				21E	BXI	0.17	17	10	2	3	
	413				50E	CSI	0.82	93	80	69	3	
	414				66E	FHC	0.90	391	441	176	3	
30.12	401				41W	HAX	0.79	172	142	142	3	PLAT
	402				19W	EKI	0.52	934	546	520	3	PLAT
	408				10W	AXX	0.48	4	2	2	3	PLAT
	410				24E	CHO	0.46	341	192	189	3	
	412				8E	BXI	0.23	13	6	2	3	
	413				34E	DSI	0.67	143	96	39	3	
	414				53E	FHC	0.79	610	501	173	3	
	415	8-29.3	-13	284	9W	BXO	0.38	8	4	2	3	PLAT 取北馆坐标
31.02	401				54W	HAX	0.89	109	117	117	3	PLAT

DAILY SUNSPOT OBSERVATIONS

AUGUST 2001

Day	Group	CMP		L	CMD Type	r/R	Sd	Corre. Area		See.	Remarks
		Mo-Day	Lat					Whole	Max		
402					31W EKI	0.64	757	495	459	3	PLAT
407					56W AXX	0.82	4	4	4	3	PLAT
408					15W AXX	0.51	4	2	2	3	PLAT
410					13E HAX	0.32	378	200	200	3	PLAT
413					22E DAI	0.53	349	205	96	3	PLAT
414					40E FKC	0.63	1140	735	276	3	PLAT
415					21W AXX	0.48	8	5	2	3	PLAT

H-ALPHA SOLAR FLARES

AUGUST 2001

Day	Sta	T i m e			Lat	L	CMD	Area Measurement				Imp	Type	Obs	
		Start	Max	End				Cen	Appar	Corr	A.R.			Rem	
		(UT)	(UT)	(UT)				Dist	(Sd)	(Sq)					
3	URUM	0535	0536	0536D	S14	261	E 7	.362	48	.5	SF	P	367	D	
3	URUM	0901E	0901	0901D	S14	261	E 6	.36	48	.5	SN	P	367	D	
4	URUM	0429	0433	0437	S20	282	W26	.598	289	3.7	1N	C	356	E	
4	URUM	0429	0437	0437D	S15	312	W57	.866	48	1.0	SN	P		G	
4	URUM	0504	0510	0510D	S15	307	W52	.824	80	1.5	SN	P		G	
5	URUM	0314E	0314	0314D	S20	280	W37	.708	32	.5	SF	P	356	D	
5	URUM	0405E	0405	0414	S13	262	W19	.455	193	2.2	1N	P	367	E	
5	URUM	0405	0409	0409D	N15	224	E19	.349	80	.9	SN	P	364	D	
6	URUM	0527	0531	0535	S19	278	W49	.818	370	6.6	2N	C	356	E	
6	URUM	0543	0547	0547D	N15	222	E 6	.191	193	2.0	1N	P	364	E	
6	URUM	0602E	0602	0614	N25	236	W 8	.351	113	1.3	SN	P	365	E	
6	URUM	0725E	0725	0725D	S19	278	W51	.829	209	3.9	1N	P	356	E	
6	URUM	0840E	0840U	0840D	N15	222	E 5	.174	241	2.5	1N	P	364	E	
7	URUM	1032E	1032	1100	N17	224	W12	.268	193	2.1	1N	P	364	E	
7	URUM	1032E	1100	1100D	S17	219	W 5	.397	129	1.5	SN	P	370	E	
8	URUM	0546	0550	0554	N24	241	W39	.66	289	4.0	1N	C	365	E	
8	URUM	0617E	0617	0617D	N15	232	W30	.511	161	1.9	SN	P	364	E	
11	URUM	0356E	0356	0356D	N13	222	W59	.851	161	3.2	1N	P	364	E	
12	URUM	0440E	0440	0440D	S 4	162	W12	.272	321	3.5	1N	P	378	E	
12	URUM	0721	0725	0725D	N15	226	W78	.972	80		1N	P	364	E	
15	URUM	1138	1142	1142D	N16	159	W53	.796	321	5.5	2N	P	379	E	
16	URUM	0515E	0515	0517	S14	148	W52	.825	64	1.2	SN	P	371	D	
31	URUM	0443E	0443	0458	S17	289	W31	.629	113	1.5	SN	P	402	E	
31	URUM	0726E	0726	0726D	S20	292	W34	.689	241	3.4	1N	P	402	E	

INTERVALS OF H-ALPHA FLARE PATROL OBSERVATION

AUGUST 2001

Day	From	To	From	To	From	To	From	To	From	To	From	To
1	031	111										
2	131	1131										
3	031	1154										
4	025	630										
5	254	1023										
6	239	914										
7	1032	1214										
8	153	1152										
9												
10	345	739										
11	245	520										
12	338	908										
13	312	859										
14	240	340										
15	707	1142										
16	515	600										
17	557	650										
18	441	514										
19	711	736										
20												
21	405	701										
22	046	619										
23												
24												
25												
26												
27												
28												
29	434	447										
30												
31	049	1133										

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

AUGUST 2001

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
1	298.4	188			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		189			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		190			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		191			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
3	271.9	191			S5 L5
4	258.7	190			S5 L5
		191			S5 L5
6	232.2	190			S5 L5
		191			S5 L5
		192	-21	290	S5 L5
		193	26	242	S5 L5
		194	20	227	S5 L5
		195	-22	223	S5 L5
		196	(-9)	162	S5 L5
7	219.0	190			L4 S5 L5 V5
		191			L4 S5 L5 V5
		192			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		193			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		194			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		195			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		196			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
8	205.8	190			L4 S5 L5
		191			L4 S5 L5
		192			L4 D4 V4 S5 L5 D5 V5
		193			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		194			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		195			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		196			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		197	(-8)	(121)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		198	7	141	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
9	192.6	191			L4 L5
		192			L4 D4 V4 S5 L5 D5 V5
		193			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

AUGUST 2001

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		194			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		195			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		196			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		197			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		198			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
10	179.3	191			S5 L5
		193			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		194			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		195			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		196			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		197			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		198			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
11	166.1	191			L5
		192			L5
		193			
		195			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		196			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		197			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		198			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		194			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		199	-6	163	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
12	152.9	193			S5 L5
		195			S5 L5
		196			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		197			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		198			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		194			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		199			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
13	139.7	196			S5 L5 T5 Q5 U5
		197			S5 L5 T5 Q5 U5
		198			S5 L5 T5 Q5 U5
		194			S5 L5 T5 Q5 U5
		199			S5 L5 T5 Q5 U5
		200	-9	152	S5 L5 T5 Q5 U5
		201	11	82	S5 L5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

AUGUST 2001

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
14	126.4	196			S5 L5
		197			S5 L5
		198			S5 L5
		194			S5 L5
		199			S5 L5
		200			S5 L5
		201			S5 L5
15	113.2	196			S5 L5
		197			S5 L5
		198			S5 L5
		194			S5 L5
		199			S5 L5
		200			S5 L5
		201			S5 L5
20	47.2	197			S5 L5
		198			S5 L5
		199			S5 L5
		200			S5 L5
		201			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		202	(14)	53	D4 V4 S5 L5 D5 V5 T5 Q5 U5
		203	27	39	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		204	31	29	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		205	(-9)	23	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		206	14	11	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
21	33.9	201			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		202			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		203			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		204			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		205			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		206			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
22	20.7	201			L4 S5 L5
		202			L4 S5 L5 T5 Q5 U5
		203			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		204			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

AUGUST 2001

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		205			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		206			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		207	-33	311	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		208	-22	(294)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
23	7.5	201			S5 L5
		202			S5 L5
		203			S5 L5 V5 T5 Q5 U5
		204			S5 L5 V5 T5 Q5 U5
		205			S5 L5 V5 T5 Q5 U5
		206			S4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		207			S4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
24	354.3	203			S5 L5 T5 Q5 U5
		204			S5 L5 T5 Q5 U5
		205			S5 L5 T5 Q5 U5
		206			S5 L5 T5 Q5 U5
		207			S5 L5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
25	341.1	207			S4 L4 D4 V4 S5 L5 D5 V5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
26	327.9	204			S5 L5
		205			S5 L5
		206			S5 L5
		207			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		211	(-19)	(281)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		210	(-28)	312	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		212	22	248	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		209	-8	23	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
27	314.6	206			S5 L5
		207			S5 L5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		211			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		210			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

AUGUST 2001

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		212			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		209			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		213	18	267	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
28	301.4	208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		211			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		210			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		212			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		209			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		213			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
29	288.2	207			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		211			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		210			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		209			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		212			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		213			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		214	(-17)	(240)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		215	11	217	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
30	275.0	207			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		208			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		211			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		210			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		209			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		212			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		213			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		214			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		215			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

NPL SPL: 11

SOLAR RADIO EMISSION FLUX AND INTERVALS OF PATROL OBSERVATION

AUGUST 2001

Day	BEIJ	BEIJ	BEIJ	BEIJ
	2840	232	2840	232
	From	From	From	From
	To	To	To	To

1	110	23.0	0000 1047	2340 0820
2	114		2203 2400	
3	123		0000 1049	
4	132		2210 2400	
5	151		0000 1043	
6	158	23.0	2215 2400	0022 0816
7	163	10.0	0000 1046	0023 0843
8	161	11.0	2208 2400	2352 0735
9	161	10.0	0000 1048	2357 0849
10	154	9.0	2210 2400	2350 0840
11	155	9.0	0000 1051	2353 0848
12	156	10.0	2214 2400	2335 0715
13	154	9.0	0000 1043	2356 0838
14	144	9.0	2209 2400	0000 0800
15	140	9.0	0000 1044	2351 0832
16	138	10.0	2211 2400	0003 0605
17	141	9.0	0000 1042	0122 0845
18	140	11.0	2219 2400	0026 0843

SOLAR RADIO EMISSION FLUX AND INTERVALS OF PATROL OBSERVATION

AUGUST 2001

Day	BEIJ	BEIJ	BEIJ	From To	From To
2840	232	2840	232	232	232
19	151	0000 1046			
20	153	2216 2400			
		0000 1046			
21	150	2213 2400			
		0000 1049			
22	156	2211 2400			
		0000 1038			
23	159	2212 2400			
		0000 1036			
24	167	2212 2400			
		0000 1036			
25	170	2211 2400			
		0000 1036			
26	176	2214 2400			
		0000 1031			
27	179	2216 2400			
		0000 1034			
28	192	2213 2400			
		0009 1032			
29	191	2217 2400			
		0000 1031			
30	185	2212 2400			
		0000 1031			
31	197	2210 2400			
		0000 1028			
		2217 2400			
Mean	155.5				

AUGUST 20001

20

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

AUGUST 20001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak	Density Rel Mean
28	2840	BEIJ	3 S	0159.0	0201.0	26.0	132.5	66.3
28	2840	BEIJ	1 S	0253.0	0255.0	4.0	4.2	2.1
28	2840	BEIJ	20 GRF	0351.0	0354.0	6.0	3.6	1.8
29	2840	BEIJ	45 C	0227.0	0229.3	6.0	13.1	6.5
29	2840	BEIJ	20 GRF	0514.0	0519.6	28.0	21.3	10.5
29	2840	BEIJ	5 S	0554.0	0557.6	6.0	13.6	6.7
29	2840	BEIJ	3 S	0607.0	0612.0	12.0	399.7	197.8
30	2840	BEIJ	5 S	0017.0	0018.5	3.0	13.8	7.1
30	2840	BEIJ	5 S	0055.0	0057.9	9.0	31.9	16.4
30	2840	BEIJ	3 S	0128.0	0134.4	19.0	35.1	18.0
30	2840	BEIJ	5 S	0334.0	0336.4	6.0	11.0	5.6
30	2840	BEIJ	1 S	0440.0	0443.6	6.0	6.7	3.4
30	2840	BEIJ	20 GRF	2343.0	2345.9	12.0	15.5	7.5
31	2840	BEIJ	1 S	0602.0	0605.2	7.0	6.3	3.1
31	2840	BEIJ	47 GB	2220.0	2241.4	49.0	446.7	236.3

COSMIC RAY NEUTRON INTENSITY Real Counts: 256 Times(Tabulated Counts Plus 1500)

AUG 2001

U.T. Hours at End of Interval

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	Mean	N	
1	366	383	389	399	408	410	393	399	386	380	371	363	360	356	358	354	346	353	351	372	361	365	358	356	372.4	24	
2	357	366	370	377	377	381	382	378	369	368	362	372	365	364	373	360	367	351	360	356	340	332	348	342	363.2	24	
3	348	351	367	378	381	387	383	379	371	366	358	346	352	338	335	337	337	339	347	343	344	340	348	355	355.4	24	
4	358	364	359	364	349	353	356	359	344	341	348	339	331	339	337	331	342	348	354	356	356	355	351	348	349.3	24	
5	352	363	365	359	352	364	355	359	354	360	344	358	352	356	367	365	359	351	353	361	354	358	361	362	357.7	24	
6	352	368	375	380	375	372	384	379	367	363	371	362	358	364	371	354	360	353	364	360	355	360	353	352	364.3	24	
7	354	365	377	377	385	380	385	375	368	369	352	357	348	350	354	353	356	356	355	352	349	359	363	363	362.6	24	
8	368	371	376	386	385	389	392	386	387	374	369	360	366	364	362	359	358	360	358	361	363	363	362	361	370.0	24	
9	367	377	380	390	391	396	382	374	376	375	372	361	364	370	369	366	364	371	374	367	367	367	366	364	372.9	24	
10	364	367	380	377	385	390	394	398	389	384	380	375	369	371	373	375	375	374	363	373	375	368	370	382	377.1	24	
11	379	386	398	392	399	384	385	392	379	377	372	375	364	374	368	363	377	356	362	373	371	370	375	378	377.0	24	
12	376	378	387	389	382	382	380	380	381	378	376	368	367	363	357	357	360	363	369	366	375	367	374	374	372.9	24	
13	376	382																							379.0	2	
14																											
15	375	384	392	407	411	403	413	403	392	385	371	371	364	366	362	367	368	362	367	367	364	367	377	373	379.6	24	
16	377	391	390	404	410	411	410	395	396	394	386	383	381	383	372	376	376	368	372	369	371	378	376	385	385.6	24	
17	386	388	417	413	412	412	408	411	397	394	380	364	343	323	322	329	328	340	345	359	366	363	348	346	370.6	24	
18	346	347	345	355	351	351	343	338	339	346	348	343	351	341	346	329	346	346	344	342	338	345	343	340	344.3	24	
19	355	353	367	370	363	358	362	362	364	354	351	353	355	362	365	355	367	371	366	370	360	355	361	368	361.1	24	
20	362	369	374	379	383	386	390	380	371	373	365	361	361	365	366	361	360	350	362	356	360	348	361	368	367.1	24	
21	362	367	381	380	377	389	389	368	365	368	370	364	356	358	362	359	357	359	359	366	363	360	355	356	366.3	24	
22	355	367	371	386	384	393	384	383	373	371	363	365	362	360	364	366	360	351	351	354	354	354	355	356	365.9	24	
23	361	361	372	367	382	386	389	374	359	359	360	364	358	355	355	353	356	347	357	345	344	355	358	356	361.4	24	
24	371	365	376	381	395	390	390	378	382	374	369	369	360	364	356	351	355	363	358	352	353	358	365	360	367.7	24	
25	361	373	384	382	372	375	367	374	360	367	367	362	364	367	362	362	361	371	370	377	369	368	364	365	368.5	24	
26	376	371	396	403	390	390	383	389	375	375	375	361	346	351	352	351	357	349	348	345	366	354	351	366.9	24		
27	363	362	378	382	397	396	390	375	361	363	356	355	359	361	367	359	344	333	328	323	335	319	316	329	317.9	24	
28	342	350	360	376	380	382	359	356	341	338	324	313	301	286	273	275	282	280	283	287	284	291	292	317.9	24		
29	293	303	315	320	332	328	336	331	317	319	317	302	300	298	300	292	304	307	309	305	311	309	316	317	311.7	24	
30	312	323	325	339	342	348	352	335	337	330	334	325	325	326	331	328	321	315	324	324	321	323	329	328	329.0	24	
31	331	333	348	361	362	354	359	348	348	346	348	337	334	337	334	332	341	339	345	344	345	354	353	351	345.2	24	
MONTHLY MEAN=361.071																											

MONTHLY MEAN=361.071

MONTHLY MEAN DAILY VARIATION FOR 29 COMPLETE DAYS DEVIATIONS FROM AVERAGE:360.684

(1-12) -3.13 2.97 12.21 17.70 19.04 20.01 18.45 13.42 6.49 4.52 -0.13 -4.55
(13-24) -8.41 -8.89 -8.51 -11.75 -9.75 -11.44 -9.13 -8.24 -8.37 -9.03 -7.20 -6.27

HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-HR)

U.T.=(1 2.15 14.11 14.27 5.42) (2 -4.98 1.58 5.22 5.41) (3 -1.60 -0.42 1.65 4.33) (4 -0.56 -0.21 0.59 3.34)
L.T.=(1-13.29 -5.20 14.27 13.42) (2 3.86 3.52 5.22 1.41) (3 -1.60 -0.42 1.65 4.33) (4 0.46 -0.38 0.59 5.34))

COSMIC RAY MESON INTENSITY VERTICAL COMPONENT

Real Counts: 128 Times(Tabulated Counts Plus 3000)

AUG 2001

U.T. Hours at End of Interval

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	Mean	N	
1	-66	-66	-55	-46	-32	-60	-50	-65	-49	-43	-46	-23	-39	-37	-44	-43	-44	-33	-35	-48	-53	-39	-43	-54	-46.4	24	
2	-60	-44	-31	-37	-36	-48	-28	-39	-53	-54	-43	-35	-43	-31	-30	-40	-33	-53	-42	-68	-82	-62	-59	-65	-46.5	24	
3	-72	-63	-46	-34	-34	-31	-30	-33	-39	-44	-49	-47	-61	-47	-68	-75	-73	-71	-68	-68	-67	-64	-72	-77	-55.5	24	
4	-62	-43	-45	-54	-52	-50	-53	-58	-54	-62	-57	-71	-87	-78	-80	-91	-79	-80	-63	-59	-65	-74	-73	-81	-65.5	24	
5	-63	-53	-76	-58	-58	-60	-56	-60	-46	-66	-62	-62	-58	-62	-61	-51	-74	-68	-69	-62	-59	-64	-56	-68	-61.3	24	
6	-58	-50	-52	-53	-63	-57	-48	-60	-57	-65	-70	-66	-68	-67	-56	-73	-63	-67	-71	-51	-68	-75	-62	-63	24		
7	-75	-65	-55	-51	-39	-46	-52	-57	-45	-50	-64	-70	-71	-73	-71	-70	-55	-61	-77	-66	-57	-67	-63	-54	-60.6	24	
8	-42	-64	-52	-49	-41	-37	-56	-48	-50	-57	-56	-53	-56	-60	-61	-64	-54	-65	-68	-50	-47	-57	-56	-54	-54.0	24	
9	-53	-53	-56	-54	-55	-53	-48	-61	-62	-56	-66	-70	-63	-61	-54	-51	-53	-64	-38	-44	-54	-51	-58	-54	-55.5	24	
10	-60	-50	-50	-60	-54	-59	-46	-51	-49	-53	-55	-48	-41	-53	-55	-50	-69	-52	-44	-63	-45	-48	-53	-56	-52.7	24	
11	-59	-58	-46	-57	-43	-35	-50	-51	-47	-50	-48	-46	-52	-56	-61	-53	-50	-54	-52	-61	-47	-48	-53	-43	-50.8	24	
12	-45	-40	-29	-48	-48	-42	-53	-58	-47	-42	-49	-48	-43	-56	-53	-59	-55	-52	-41	-38	-46	-47	-36	-30	-46.0	24	
13	-37	-34	-22	-16	-14	-26	-37	-38	-41	-43	-36	-47	-47	-37	-43	-64	-63	-88	-73	-59	-72	-64	-66	-71	-47.4	24	
14	-55	-52	-58	-35	-25	-25	-44	-54	-43	-49	-66	-54	-62	-71	-69	-83	-78	-75	-71	-67	-76	-68	-65	-62	-58.6	24	
15	-63	-46	-58	-53	-43	-36	-44	-45	-59	-55	-52	-44	-64	-48	-77	-69	-74	-65	-61	-69	-52	-43	-46	-49	-54.8	24	
16	-63	-58	-25	-15	-18	-30	-30	-42	-34	-32	-11	-20	-42	-33	-44	-47	-57	-63	-64	-60	-50	-51	-63	-52	-41.8	24	
17	-52	-24	-28	-27	-19	-23	-26	-27	-31	-38	-35	-41	-95	-97	-120	-105	-114	-89	-101	-77	-78	-62	-60	-57	-59.4	24	
18	-50	-60	-70	-76	-71	-84	-79	-85	-82	-78	-96	-91	-92	-92	-99	-86	-87	-79	-82	-78	-86	-73	-83	-58	-79.9	24	
19	-66	-68	-53	-65	-64	-65	-71	-85	-75	-81	-81	-92	-88	-89	-85	-85	-71	-75	-80	-74	-86	-77	-93	-68	-76.5	24	
20	-65	-65	-78	-62	-54	-76	-71	-90	-93	-75	-82	-78	-92	-75	-73	-73	-76	-85	-86	-88	-81	-71	-77	-76.6	24		
21	-74	-80	-63	-56	-56	-64	-59	-76	-66	-61	-69	-68	-77	-72	-64	-69	-74	-63	-85	-76	-76	-83	-72	-71	-69.8	24	
22	-83	-83	-72	-53	-47	-68	-61	-58	-71	-63	-73	-82	-73	-79	-81	-80	-69	-84	-87	-97	-88	-99	-90	-83	-76.0	24	
23	-87	-93	-91	-71	-60	-72	-72	-69	-59	-54	-69	-67	-57	-82	-82	-82	-71	-79	-64	-83	-82	-85	-74	-84	-74.5	24	
24	-92	-77	-74	-57	-46	-51	-56	-61	-51	-62	-60	-55	-71	-73	-76	-66	-75	-80	-68	-66	-67	-86	-75	-68	-67.2	24	
25	-74	-62	-57	-52	-54	-41	-56	-62	-46	-51	-58	-54	-57	-61	-64	-70	-60	-59	-61	-49	-68	-65	-67	-64	-58.8	24	
26	-68	-51	-54	-55	-56	-48	-41	-67	-54	-51	-56	-54	-68	-53	-83	-79	-73	-77	-81	-80	-76	-70	-78	-84	-64.9	24	
27	-83	-86	-80	-66	-55	-46	-59																			24	
28	-116	-90	-50	-43	-45	-55	-59	-61	-75	-88	-96	-110	-121	-143	-142	-136	-141	-134	-132	-133	-125	-116	-122	-143	-103.2	24	
29	-111	-122	-109	-101	-94	-90	-81	-90	-78	-80	-96	-96	-119	-123	-113	-108	-115	-115	-120	-118	-107	-115	-94	-108	-104.3	24	
30	-103	-112	-108	-80	-74	-90	-77	-71	-82	-93	-85	-88	-94	-98	-98	-102	-99	-111	-90	-92	-84	-93	-86	-74	-91.0	24	
31	-93	-80	-85	-77	-96	-76	-82	-88	-90	-83	-80	-94	-97	-89	-100	-94	-79	-79	-84	-73	-70	-69	-79	-67	-83.5	24	
MONTHLY MEAN=-65.314																											

MONTHLY MEAN DAILY VARIATION FOR 30 COMPLETE DAYS DEVIATIONS FROM AVERAGE:-64.832

MONTHLY MEAN=-65.314

(1-12) -4.07 1.30 6.57 11.67 15.13 11.57 10.97 4.50 7.23 5.53 2.63 2.37
(13-24) -5.10 -5.03 -8.73 -9.10 -7.83 -9.17 -7.10 -5.73 -5.63 -4.70 -4.10 -3.13

HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-HR)

U.T.=(1 0.77 9.77 9.80 5.70) (2 -2.09 -0.01 2.09 6.01) (3 -2.19 0.21 2.20 3.88) (4 -0.47 -1.35 1.43 4.18))
L.T.=(1 -8.85 -4.22 9.80 13.70) (2 1.04 1.81 2.09 2.01) (3 -2.19 0.21 2.20 3.88) (4 1.41 0.27 1.43 0.18))

COSMIC RAY MESON INTENSITY
Real Relative Intensity: 0.1% Times (Tabulated Value Plus 1000)

AUG 2001

U.T. Hours at End of Interval

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 Mean N

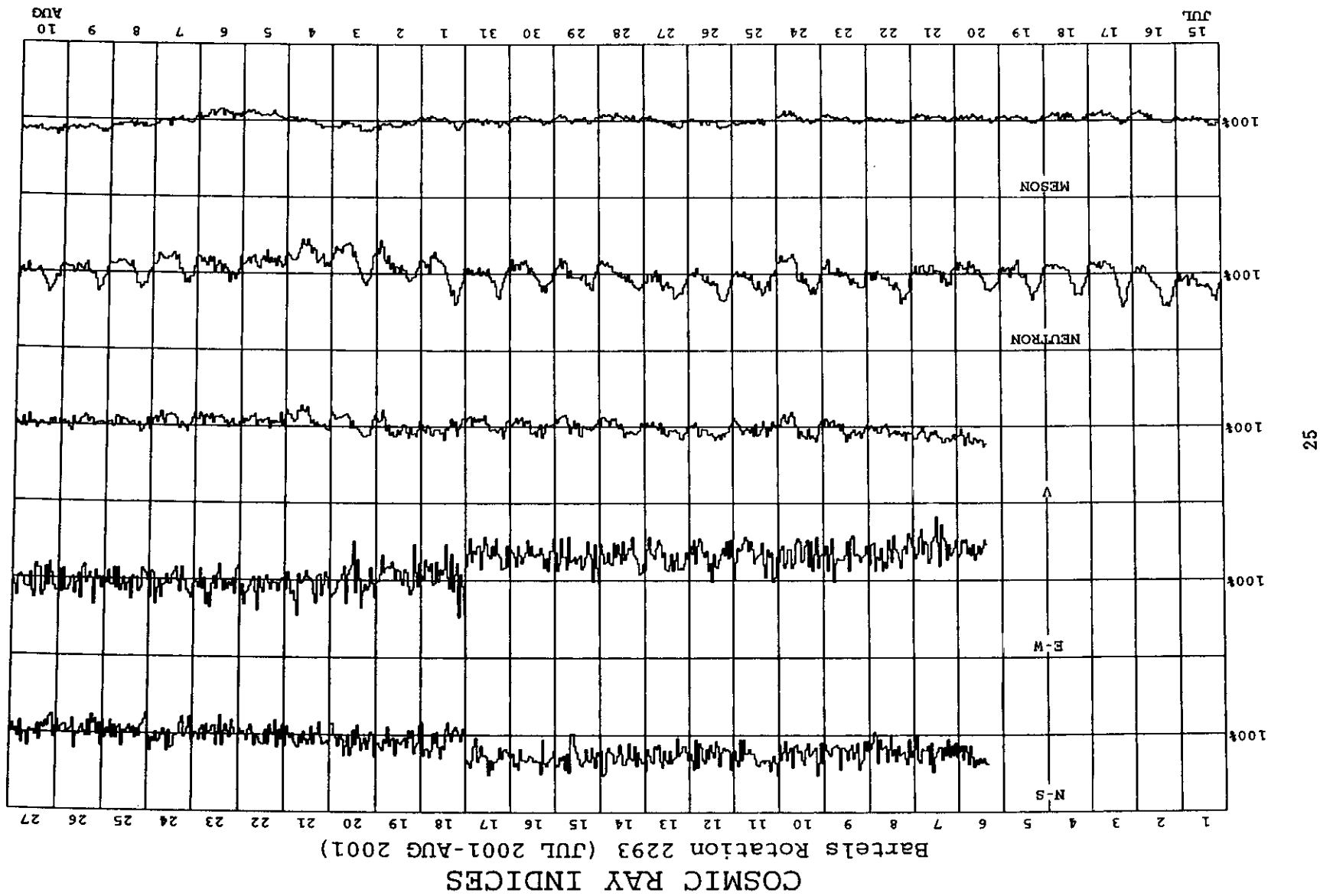
31	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
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MONTHLY MEAN= 2.563

MONTHLY MEAN DAILY VARIATION FOR 29 COMPLETE DAYS DEVIATIONS FROM AVERAGE: 2.530

(1-12) 0.99 2.02 2.44 -0.84 -0.94 -0.88 -1.36 -0.98 0.88 0.47 0.09 -1.08 -0.70 -0.15 -0.05
 HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-HR)

U.T.= (1 0.71 1.31 1.49 4.11) (2 -0.28 0.56 0.63 3.88) (3 -0.27 -0.04 0.27 4.19) (4 -0.06 -0.11 0.13 4.00)
 L.T.= (1 -1.49 -0.04 1.49 12.11) (2 0.63 -0.04 0.63 11.88) (3 -0.27 -0.04 0.27 4.19) (4 0.13 0.00 0.13 6.00)



GEOMAGNETIC ACTIVITY INDICES K AND A_K

AUGUST 2001

BGMO

Three-Hourly Indices K

Day Sum A_K

0-3 3-6 6-9 9-12 12-15 15-18 18-21 21-24

1	1	2	2	4	3	3	1	1	1	17	10
2	0	2	3	3	2	3	1	1	2	16	9
3	1	3	5	3	3	3	2	2	0	20	15
4	0	2	3	4	3	3	2	2	1	18	11
5 D	2	3	4	4	5	5	3	3	2	28	24
6 D	2	4	4	4	4	3	2	2	2	25	18
7	2	3	4	3	3	1	2	2	2	20	12
8	0	2	2	2	2	2	2	1	1	13	6
9	2	3	2	2	3	2	2	2	4	20	12
10	4	3	3	3	1	0	1	1	2	17	11
11 Q	2	2	2	2	1	2	1	2	2	14	6
12	0	2	2	5	4	5	4	3	3	25	22
13 D	4	3	4	6	4	3	3	1	1	28	26
14	2	3	2	3	3	2	2	2	2	19	10
15 Q	0	2	2	3	1	2	2	2	1	13	6
16 Q	0	2	2	4	2	1	2	2	0	13	7
17 D	1	2	2	5	6	5	6	6	6	33	44
18	2	4	5	2	4	4	4	4	4	29	25
19	0	4	5	5	3	3	3	3	0	23	21
20	0	0	1	3	3	2	3	3	3	15	9
21	2	3	3	5	3	4	3	3	2	25	19
22 D	2	2	3	5	4	4	4	4	3	27	22
23	3	2	5	4	2	2	1	1	1	20	15
24 Q	1	4	1	3	2	1	0	0	0	12	7
25	0	2	3	4	4	3	4	2	2	22	16
26	3	3	4	4	3	2	3	3	3	25	17
27	1	2	2	3	3	2	5	5	5	23	19
28	5	4	4	3	2	3	3	3	1	25	20
29 Q	2	3	2	3	2	2	1	2	2	17	9
30	1	1	2	3	4	4	3	2	2	20	13
31	1	2	3	4	3	5	1	2	2	21	16

Sum 477
Mean 15.4

MAGNETIC STORMS

AUGUST 2001

BGMO

Time of Magnetic					Type	Sudden Com.			Deg. of	Maximum Acti.			Maximum		
Beginning		Ending		Amplitude		on K-scale 3hour k	Range								
Day	h	m	Day	h	D'		HnT	ZnT	Acti.	Day	Int.	Index	D'	HnT	ZnT
12	11	35	13	21	SC	2.3	56	3	ms	13	2	6	14.6	168	35
17	11	03	18	09	SC	2.6	44	3	ms	17	7	6	12.2	152	46
27	19	52	28	13	SC	0.6	49	3	ms	27	7	6	16.7	138	6