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1992年2-3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	E':	预报误差
Gro:	每天在日面上的黑子群总数	H α 太阳耀斑表	
Relative—Num— bers:	每天的黑子相对数值	Sta:	台站
N. H.:	每天北半球的黑子相对数	Start (UT):	耀斑开始时间(UT 为世界时,其中“E”为小于此时间。)
S. H.:	每天南半球的黑子相对数	Max (UT):	耀斑的极大时间(“U”为接近此时间,不确定。)
Sum:	南、北半球黑子相对数的总和	End (UT):	耀斑的结束时间(“D”为大于此时间。)
Sunspot Areas:	太阳黑子面积数值	Cen	日心距,即 r/R 。
Drawing:	手描的	Dist:	
Photographic:	照相的	Area	耀斑极大时的面积(Sd 为视面积,单位为太阳圆面积的 10^{-6} ; Sq 为校正面积,以平方度为单位。)
N. H.:	每天北半球黑子面积	Measurement	
S. H.:	每天南半球黑子面积	Appar Corr	
Sum:	南、北半球黑子面积的总和	(sd) (sq):	

太阳黑子观测表

Group:	在日面上的黑子群号	Imp:	耀斑的级别
CMP	黑子群过日面中心经圈日期,	Obs	耀斑资料类型
Mo—Day:	用月—日表示。	Type:	
Lat:	黑子群在日面上的纬度	A. R.:	耀斑所在活动区的黑子群号
L:	黑子群在日面上的卡林顿经度	Rem:	备注(记录耀斑发生时的形态)
CMD:	黑子群在日面上的中经距		
Type:	黑子群的 McIntosh 类型		
r/R:	黑子群在日面上的日心距(以太阳半径为 1)		

Corre. Area Sd	黑子群在日面上所占的面积	H α 耀斑巡视时间表	
whole Max:	(Sd 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。)	From:	耀斑照相巡视开始时间
See:	观测时大气视宁静度	To:	耀斑照相巡视的结束时间

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。)	太阳活动区磁场和速度场的观测表	
		L $_0$:	每天的日面中心经度
		Huairou	北京天文台怀柔观测站的
		Region:	活动区编号
		Data:	取得的磁场资料类型

		太阳射电辐射流量表	
		BELJ	每天的太阳在 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:	
		PURP	每天的太阳在 2700 MHz 的流量密度(紫台 0400 UT 测)
		2700:	

太阳黑子相对数的平滑值预报表

Time:	预报的时间		
R':	月平滑黑子相对数的预报值		

URUM 每天的太阳在 9375 MHz 的
9375 : 流量密度(乌站 0500 UT 测)
YUNN 每天的太阳在 2840 MHz 的
2840 : 流量密度(云台 0500 UT 测)

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
Mean: 流量密度的增值对时间求积分再除以爆发持续时间

太阳射电辐射巡视时间表

BELJ 北京天文台 2840 MHz 频率
From To 巡视时间
2840 :
PURP 紫金山天文台 2700 MHz 频率
From To 巡视时间
2700 :
URUM 新疆乌鲁木齐天文站频率为
From To 9375 MHz 巡视时间
9375 :
YUNN 云南天文台 2840 MHz 频率
From To 巡视时间
2840 :

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“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。

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 1991 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: 低频相位突然异常
VLF: 甚低频相位突然异常
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
tic:
Beginning: 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 最大幅度
Range
D' HnT ZnT:

DAILY RELATIVE SUNSPOT NUMBERS AND SUNSPOT AREAS

FEBRUARY 1992

Day	Relative-Numbers			Sunspot Areas			Photographic		
	Gro.	N.H.	S.H.	Sum	N.H.	S.H.	Sum	N.H.	S.H.
1	20	82	194	276	983	2538	3521	1019	2619
2	16	57	168	225	846	2552	3398		3638
3	16	54	170	224	886	2623	3509	854	2377
4	14	51	156	207	802	2821	3623	743	2599
5	17	46	189	235	603	1617	2220	636	2152
6	17	41	183	224	309	1019	1328	323	1319
7	17	50	171	221	828	1485	2313	720	1239
8	14	46	138	184	757	1413	2170	763	1323
9	15	64	127	191	794	1513	2307	841	1100
10	14	85	110	195	966	1317	2283	1556	1227
11	14	90	113	203	1446	1438	2884	1155	1585
12	11	76	83	159	1208	960	2168	1141	1018
13	11	71	84	155	1082	986	2068	1101	885
14	13	62	98	160	786	928	1714	770	1088
15	10	40	73	113	546	1006	1552	556	1046
16	11	41	84	125	633	1134	1767	357	959
17	10	40	106	146	277	1079	1356	511	1252
18	10	30	84	114	151	956	1107	237	1208
19	10	41	73	114	386	708	1094	404	1039
20	11	38	84	122	665	514	1179	901	1142
21	14	67	97	164	1007	652	1659	933	421
22	11	73	51	124	1312	502	1814	1673	586
23	12	88	60	148	1890	733	2623	1864	678
24	14	120	65	185	2184	815	2999	1966	675
25	14	109	66	175	2100	1108	3208	2296	953
26	13	143	74	217	2026	629	2655	2150	631
27	16	154	76	230	2101	610	2711	2349	574
28	15	122	95	217	1828	679	2507	1834	646
29	14	106	80	186	1527	494	2021	1380	444
Mean				72.0	108.7	180.7	1066.5	1201.0	2267.5
								1108.3	1170.9
									2279.2

DAILY RELATIVE SUNSPOT NUMBERS AND SUNSPOT AREAS

MARCH 1992

		Relative-Numbers		Sunspot Areas			Photographic	
		Day	Gro. N.H.	S.H.	Sum	M.H.	S.H.	Sum
				Drawing	Sum	M.H.	S.H.	Sum
1	15	97	76	173	1294	606	1900	
2	14	96	80	176	828	444	1272	
3	12	56	47	103	357	294	651	
4	13	44	63	107	294	205	499	297 231 528
5	10	38	50	88	208	68	276	176 86 262
6	7	35	27	62	124	107	231	137 75 212
7	11	46	48	94	145	200	345	90 185 275
8	9	37	69	106	105	287	392	53 549 602
9	11	36	109	145	163	884	1047	96 559 655
10	13	44	109	153	160	920	1080	
11	12	35	99	134	132	640	772	62 549 611
12	14	46	98	144	139	658	797	
13	14	34	120	154	79	744	823	54 944 998
14	14	35	124	159	98	838	936	41 847 888
15	13	27	130	157	49	817	866	50 846 896
16	10	19	117	136	25	642	667	34 833 867
17	9	22	79	101	214	500	714	130 641 771
18	8	22	71	93	192	437	629	285 327 612
19	6	24	47	71	275	242	517	478 262 740
20	9	50	43	93	569	292	861	
21	10	56	44	100	563	267	830	581 320 901
22	10	55	42	97	515	259	774	
23	9	67	29	96	396	110	506	
24	11	89	43	132	451	175	626	532 179 711
25	10	78	45	123	770	215	985	891 448 1339
26	9	58	54	112	986	411	1397	1654 751 2405
27	10	59	69	128	1104	541	1645	1250 632 1882
28	10	66	66	132	1158	399	1557	1070 676 1746
29	8	49	82	131	1417	643	2060	1996 883 2879
30	7	42	73	115	1578	775	2353	1760 981 2741
31	7	38	87	125	1444	623	2067	
Mean		48.4	72.3	120.6	510.7	459.5	970.2	

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

CMP			Lat	L	CMD	Type	r/R	Sd	Corre. Area			
Day Group	Mo-Day	Whole							Max	See Remarks		
1.06	40	1-27.2	-13	70	69W	ESO	0.92	88	112	70	3	
	47	1-29.1	17	45	40W	DAI	0.71	404	288	180	3	
	48	1-30.1	-5	31	26W	EKI	0.45	1543	863	762	3	
	49	1-30.9	7	21	15W	DHI	0.34	883	470	336	3	
	50	1-29.4	-11	40	38W	CRI	0.61	55	34	32	3	
	51	1-29.9	6	34	25W	AXX	0.46	8	5	2	3	
	54	1-31.8	-10	10	4W	DAI	0.09	833	418	228	3	
	55	2-2.2	8	351	14E	HSX	0.34	151	81	81	3	
	56	2-2.2	-15	350	16E	CRO	0.31	17	9	7	3	
	57	2-3.0	-18	340	23E	BXO	0.44	8	5	2	3	
	59	2-3.7	-15	331	38E	EKI	0.62	875	558	252	3	
	61	2-4.9	7	315	50E	DSO	0.78	164	131	118	3	
	62	2-4.7	1	318	46E	AXX	0.72	4	3	3	3	
	63	2-5.4	-12	309	60E	DSI	0.86	303	299	141	3	
	65	2-4.9	-15	315	47E	BXO	0.72	8	6	3	3	
	66	2-5.8	17	304	62E	AXX	0.91	4	5	5	3	
2.24	47				57W	DSI	0.87	193	199	91	2	
	48				42W	DKI	0.67	1312	880	846	2	
	49				31W	DKI	0.55	849	509	479	2	
	50				53W	BXO	0.79	8	7	3	2	
	54				20W	DAI	0.34	513	273	190	2	
	55				1W	HSX	0.24	93	48	26	2	
	56				0W	AXX	0.15	4	2	2	2	
	57				10E	BXI	0.25	13	7	2	2	
	59				21E	EKI	0.39	984	535	242	2	
	61				34E	CSO	0.59	130	80	73	2	
	63				43E	DKC	0.69	959	622	398	2	
	65				34E	BXO	0.57	8	5	3	2	
	67				49E	DRI	0.78	80	64	47	2	
	68				56E	DSI	0.83	126	112	45	2	
	70				64E	AXX	0.89	4	5	5	2	
	71	1-27.3	4	68	78W	AXX	0.98	4	10	10	2	
3.07	47				68W	EAI	0.94	160	239	126	2	

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day Group	Mo-Day	CMP	L	Lat	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
									Whole	Max		
48					53W	DKI	0.79	967	794	711	2	
49					42W	DKI	0.69	786	543	459	2	
50					66W	AXX	0.91	4	5	5	2	
54					33W	DSO	0.55	387	232	222	2	
55					12W	HRX	0.32	59	31	16	2	
56					16W	AXX	0.29	4	2	2	2	
57					1W	DRI	0.20	84	43	13	2	
59					9E	FKI	0.22	786	403	187	2	
61					23E	CSO	0.45	126	71	68	2	
62					22E	AXX	0.39	4	2	2	2	
63					31E	EKC	0.52	1775	1037	897	2	
65					23E	AXX	0.41	4	2	2	2	
67					39E	CRI	0.67	34	23	8	2	
68					45E	DSI	0.70	97	68	41	2	
72					84E	AXX	0.99	4	14	14	2	
				2- 9.5	-29	254						
4.12	47				76W	DRD	0.98	25	59	30	3	
48					65W	DKI	0.91	938	1119	818	3	
49					55W	DKC	0.84	690	634	618	3	
54					47W	CSI	0.72	328	238	232	3	
55					25W	HRX	0.47	59	33	17	3	
56					30W	BXO	0.49	8	5	2	3	
57					14W	CAI	0.30	219	115	104	3	
59					5W	FAI	0.17	698	354	192	3	
61					10E	CSO	0.28	139	72	70	3	
62					8E	AXX	0.18	8	4	2	3	
63					17E	EKC	0.30	1749	917	366	3	
67					24E	CRI	0.52	29	17	7	3	
68					31E	DSI	0.53	84	50	32	3	
72					70E	AXX	0.93	4	6	6	3	
5.06	48				79W	DKI	0.98	185	434	365	3	
49					68W	DKI	0.93	391	536	484	3	
54					60W	CSO	0.86	172	170	166	3	
55					39W	AXX	0.66	8	6	3	3	
56					44W	BXO	0.69	8	6	3	3	
57					27W	CAI	0.47	109	62	57	3	
59					17W	FAI	0.32	408	215	171	3	
61					2W	HSX	0.23	109	56	54	3	
63					4E	EKI	0.11	1346	677	453	3	

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day	Group	CMP		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See
		Mo-Day	Mo-Day							Whole	Max	
65						2W	BXI	0.15	13	6	2	3
67						13E	BXI	0.41	17	9	2	3
68						20E	CRI	0.34	34	18	13	3
70						28E	AXX	0.47	8	5	2	3
73		2- 2.9	18	342		29W	AXX	0.61	4	3	3	3
74		2- 4.2	-19	324		11W	AXX	0.29	4	2	2	3
75		2- 4.9	12	315		2W	AXX	0.32	4	2	2	3
76		2- 8.7	-5	265		50E	CRO	0.76	17	13	10	3
6.12	49					81W	HXX	0.99	55	181	181	4
54						75W	CSO	0.95	88	147	140	4
55						53W	AXX	0.82	4	4	4	4
57						42W	CRO	0.67	29	20	8	4
59						31W	EAI	0.53	172	102	57	4
61						16W	CSO	0.34	67	36	34	4
63						10W	EKI	0.20	1363	695	525	4
65						16W	BXO	0.32	8	4	2	4
67						1W	BXO	0.36	17	9	5	4
68						5E	BXI	0.14	25	13	2	4
70						14E	BXI	0.24	8	4	2	4
72						45E	AXX	0.74	4	3	3	4
74						26W	AXX	0.48	8	5	2	4
75						15W	BXI	0.38	8	5	2	4
76						35E	CRI	0.57	21	13	8	4
77		2-10.5	-7	241		59E	AXX	0.85	4	4	4	4
78		2-12.1	11	221		81E	DRO	0.99	25	83	42	4
7.11	54					85W	BXO	0.99	8	28	14	4
55						67W	BXO	0.92	8	11	5	4
57						53W	DRI	0.80	109	92	39	4
59						45W	EKI	0.70	673	472	401	4
61						30W	CSO	0.52	67	39	37	4
63						24W	EKI	0.39	1539	836	713	4
65						30W	BXI	0.51	8	5	2	4
67						13W	BXI	0.41	21	12	9	4
68						8W	BXI	0.20	17	9	2	4
70						1W	BXI	0.10	8	4	2	4
75						30W	BXI	0.56	8	5	3	4
76						21E	BXI	0.37	21	11	2	4
78						68E	EAI	0.94	513	768	296	4

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day	Group	CMP		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See
		Mo-Day	Mo-Day							Whole	Max	
79		2-7.6	-13	280	6E	AXX	0.16	8	4	2	4	
80		2-8.6	-27	267	19E	AXX	0.46	8	5	2	4	
81		2-8.6	20	266	20E	BXO	0.54	8	5	2	4	
82		2-13.0	-20	209	76E	AXX	0.95	4	7	7	4	
8.24	57				68W	CRO	0.93	42	58	40	3	
59					61W	DSI	0.89	265	285	90	3	
61					45W	HRX	0.72	25	18	18	3	
63					39W	EKI	0.61	1312	827	377	3	
67					24W	BXI	0.47	8	5	2	3	
68					24W	BXI	0.43	13	7	2	3	
70					14W	BXI	0.30	17	9	2	3	
76					6E	DAI	0.10	172	87	38	3	
78					53E	EAI	0.80	622	524	163	3	
81					5E	DAI	0.44	236	131	72	3	
82					61E	BXI	0.89	13	14	5	3	
83		2-13.5	15	203	70E	DRI	0.95	50	84	49	3	
84		2-13.8	-10	198	72E	HRX	0.94	25	38	38	3	
85		2-14.9	-13	183	84E	HSX	0.99	25	83	70	3	
9.07	57				80W	BXI	0.98	8	20	10	3	
59					72W	DSI	0.95	181	302	140	3	
61					55W	HRX	0.83	17	15	15	3	
63					50W	EKI	0.75	883	664	357	3	
67					34W	AXX	0.57	8	5	3	3	
68					36W	BXO	0.59	8	5	3	3	
70					24W	BXI	0.40	21	11	7	3	
76					6W	DAI	0.13	210	106	85	3	
78					41E	FAI	0.72	749	543	235	3	
81					7W	DSI	0.46	181	102	36	3	
82					50E	BXI	0.78	21	17	7	3	
83					60E	DSI	0.89	118	126	63	3	
84					61E	HSX	0.87	50	52	48	3	
85					75E	CSO	0.97	172	331	242	3	
86		2-14.5	13	189	74E	AXX	0.97	4	8	8	3	
10.06	59				83W	AXX	0.99	8	28	14	3	
61					67W	AXX	0.92	8	11	11	3	
63					62W	DAI	0.87	496	510	229	3	
68					47W	BXO	0.71	8	6	3	3	

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

CMP

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

70	35W	BXI	0.57	17	10	5	3
76	20W	DAI	0.37	421	226	176	3
78	28E	FAC	0.54	749	445	190	3
81	20W	DAI	0.53	530	312	173	3
82	39E	CRI	0.67	46	31	14	3
83	47E	DAI	0.78	236	189	74	3
84	48E	HRX	0.74	55	40	40	3
85	63E	EKI	0.89	429	461	411	3
86	60E	AXX	0.89	8	9	5	3
87	30E	BXO	0.52	8	5	2	3
2-12.3 -18 218							
11.06	61	79W	AXX	0.98	4	10	10
63	76W	DAI	0.97	269	517	372	3
68	60W	BXO	0.87	8	9	4	3
70	49W	BXO	0.76	17	13	6	3
76	35W	DAI	0.57	471	288	123	3
78	14E	FKC	0.36	1333	713	248	3
81	33W	DAI	0.66	799	529	206	3
82	26E	BXI	0.51	29	17	7	3
83	34E	DAI	0.61	299	188	106	3
84	34E	CRD	0.55	42	25	23	3
85	49E	EKI	0.75	656	494	329	3
86	47E	BXO	0.76	8	6	3	3
87	17E	BXO	0.34	8	4	2	3
88	15W	DSI	0.32	135	71	33	3
2- 9.9 -17 249							
12.06	70	60W	AXX	0.86	8	8	4
76	49W	DAI	0.75	370	278	152	3
78	1E	FKC	0.29	1211	632	202	3
81	47W	DAI	0.80	488	411	255	3
82	12E	BXI	0.31	8	4	2	3
83	20E	DSI	0.45	286	160	104	3
84	21E	AXX	0.36	29	16	11	3
85	36E	EKI	0.60	917	572	477	3
86	32E	BXI	0.60	8	5	3	3
87	3E	BXI	0.21	13	6	2	3
88	28W	DSI	0.52	130	76	44	3
13.08							
76	62W	DAI	0.87	252	259	104	3
78	14W	EKC	0.38	1077	582	275	3

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day Group	CMP Mo-Day	Lat	L	CMD	Type	r/R	Sd	Corre. Area		See Remarks
								Whole	Max	
81				61W	DAI	0.91	315	376	181	3
82				1W	BXI	0.25	13	7	2	3
83				5E	CSI	0.36	223	119	101	3
84				9E	BXO	0.17	29	15	9	3
85				23E	EKI	0.40	1144	625	496	3
86				20E	BXO	0.49	8	5	2	3
87				10W	BXO	0.24	8	4	2	3
88				43W	DSI	0.71	101	72	51	3
89		2-17.7	-14	62E	AXX	0.87	4	4	4	3
14.12	76			75W	DSI	0.97	105	202	73	3
78				27W	EHC	0.52	938	548	265	3
81				74W	CSI	0.97	76	145	113	3
82				12W	BXO	0.39	8	5	2	3
83				8W	CSI	0.38	168	91	55	3
84				4W	BXO	0.08	17	8	4	3
85				10E	EKI	0.20	1135	579	360	3
86				5E	AXX	0.34	4	2	2	3
87				22W	BXI	0.39	8	5	2	3
88				56W	DRI	0.84	126	116	39	3
89				47E	AXX	0.71	4	3	3	3
90		2-14.9	-26	184	AXX	0.36	8	5	2	3
91		2-16.9	-8	157	39E	AXX	0.61	8	5	3
15.10	78			40W	EHC	0.70	681	478	242	3
82				25W	AXX	0.46	8	5	2	3
83				22W	CSI	0.51	109	63	49	3
84				16W	BXO	0.23	8	4	2	3
85				3W	EKC	0.10	1808	909	512	3
86				7W	BXI	0.37	8	5	2	3
88				69W	BXI	0.93	13	17	6	3
89				31E	AXX	0.52	8	5	2	3
91				26E	BXO	0.44	55	30	21	3
92		2-19.9	-15	118	64E	BXO	0.89	34	36	3
16.11	78			54W	EHI	0.85	589	560	320	3
83				36W	CRO	0.67	55	37	20	3
84				27W	BXO	0.46	8	5	2	3
85				16W	EKC	0.28	1741	906	693	3
86				20W	CRI	0.47	63	36	17	3

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

CMP				Corre. Area			
Day Group	Mo-Day	Lat	L	CMD Type	r/R	Sd	Whole Max See Remarks
88				82W	AXX 0.99	4	14 14 3
89				21E	AXX 0.40	8	5 2 3
91				12E	CAI 0.23	151	78 56 3
92				51E	BXO 0.76	17	13 10 3
93	2-15.3	-29	179	11W	AXX 0.41	4	2 2 3
94	2-22.4	-10	85	82E	HSX 0.99	34	111 111 3
17.06				69W	ESI 0.94	139	208 157 4
83				49W	BXI 0.79	8	7 3 4
84				38W	BXO 0.61	8	5 3 4
85				28W	FKC 0.47	1724	977 834 4
86				33W	DRI 0.62	97	62 30 4
89				7E	AXX 0.15	8	4 2 4
90				32W	AXX 0.57	8	5 3 4
91				2W	CRI 0.06	38	19 13 4
92				38E	BXO 0.61	17	11 8 4
94				70E	HSX 0.93	42	58 58 4
18.03				82W	AXX 0.99	8	28 28 3
83				62W	BXI 0.91	8	10 5 3
85				41W	FKI 0.66	1262	835 662 3
86				45W	DAI 0.76	147	113 45 3
89				4W	BXI 0.15	17	9 2 3
90				46W	AXX 0.74	4	3 3 3
91				16W	BXI 0.28	17	9 4 3
92				24E	CRQ 0.41	38	21 18 3
94				57E	HSX 0.83	84	75 75 3
95	2-19.4	-5	124	20E	BXI 0.34	8	4 2 3
19.05				74W	AXX 0.97	8	16 8 5
85				55W	FKI 0.80	732	616 379 5
86				57W	DAI 0.86	101	100 46 5
89				17W	BXI 0.32	13	7 2 5
92				11E	BXI 0.23	13	6 2 5
94				44E	HSX 0.68	105	72 72 5
95				5E	AXX 0.09	4	2 2 5
96	2-20.9	-13	105	22E	BXO 0.39	8	5 2 5
97	2-24.9	3	52	79E	CHQ 0.98	109	256 237 5
98	2-25.0	16	50	80E	AXX 0.99	4	14 14 5
20.21				70W	DRI 0.93	164	225 52 3

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day Group	Mo-Day	Lat	L	CHD Type	r/R	Sd	Corre. Area		See Remarks
							Whole	Max	
86				69W CSO 0.94		67	101	94	3
89				31W BXI 0.52		13	7	2	3
90				71W BXO 0.93		8	12	6	3
91				41W BXI 0.64		8	5	3	3
92				5W BXI 0.17		8	4	2	3
94				29E CSO 0.47		139	79	76	3
96				9E BXO 0.20		8	4	2	3
97				63E EKI 0.90		479	541	427	3
98				66E CRI 0.93		17	23	12	3
99	2-26.2	-3	35	79E HHX 0.98		76	178	178	3
21.04									
85				80W DRI 0.98		71	168	69	5
86				80W HSX 0.99		25	83	83	5
89				45W BXO 0.70		17	12	6	5
90				82W BXO 0.99		8	28	14	5
92				19W BXI 0.36		17	9	2	5
94				18E CSO 0.30		143	75	73	5
96				2W BXI 0.11		13	6	2	5
97				52E EKI 0.79		828	680	552	5
98				54E CRI 0.84		34	31	12	5
99				67E CHO 0.91		231	276	271	5
100	2-20.4	3	111	8W BXO 0.22		8	4	2	5
101	2-20.8	-6	106	3W BXI 0.06		17	8	4	5
102	2-27.2	7	21	80E DRI 0.99		63	209	139	5
103	2-27.4	-10	18	85E HSX 0.99		21	70	70	5
22.36									
92				41W CRI 0.67		34	23	8	3
94				1E HSX 0.05		126	63	63	3
97				34E EKI 0.57		1135	694	622	3
98				37E BXI 0.67		17	11	3	3
99				49E CHO 0.75		370	278	275	3
100				25W AXX 0.45		4	2	2	3
101				23W BXI 0.39		8	5	2	3
102				64E DKC 0.90		488	551	546	3
103				66E CSO 0.90		118	133	128	3
104	2-24.2	14	61	25E AXX 0.53		8	5	2	3
105	2-28.1	15	9	79E BXO 0.98		21	49	30	3
23.07									
92				48W CAI 0.74		168	124	90	3 PLAT
94				8W HSX 0.14		135	68	68	3 PLAT

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

		CMP		L	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
Day	Group	Mo-Day	Lat						Whole	Max		
97					26E	EKI	0.47	1274	722	670	3	PLAT
98					28E	BXO	0.57	13	8	3	3	PLAT
99					40E	CAO	0.63	484	312	309	3	PLAT
101					31W	BXO	0.36	17	9	2	3	PLAT
102					56E	CKO	0.84	900	827	812	3	PLAT
103					58E	CSO	0.84	240	220	213	3	PLAT
104					16E	BXO	0.44	8	5	2	3	PLAT
105					70E	CSO	0.95	122	203	112	3	PLAT
106		2-29.0	19	357		HRX	0.99	13	42	42	3	PLAT
107		2-29.4	10	352		HSX	0.99	25	83	83	3	PLAT
24.08	92				63W	CAI	0.89	164	176	122	3	PLAT
	94				21W	HSX	0.36	105	56	56	3	PLAT
	97				12E	EKI	0.28	1417	737	676	3	PLAT
	98				11E	BXI	0.41	21	12	2	3	PLAT
	99				26E	CAD	0.44	543	302	297	3	PLAT
	101				45W	BXO	0.70	8	6	3	3	PLAT
	102				41E	CKI	0.68	1308	890	835	3	PLAT
	103				45E	CAO	0.70	336	236	218	3	PLAT
	104				1E	AXX	0.34	13	7	7	3	PLAT
	105				55E	CAO	0.85	198	188	160	3	PLAT
	106				70E	CRI	0.94	46	69	25	3	PLAT
	107				71E	CAI	0.95	139	232	182	3	PLAT
	108	2-26.2	19	346	80E	HSX	0.98	21	49	49	3	PLAT
	109	2-27.1	-15	343	80E	HSX	0.98	17	39	39	3	PLAT
25.07	92				81W	DAI	0.99	156	515	389	2	
	94				35W	HSX	0.57	105	64	64	2	
	97				3W	EKI	0.18	1598	813	755	2	
	98				1W	BXO	0.39	8	5	2	2	
	99				13E	CHI	0.23	622	320	313	2	
	101				58W	AXX	0.84	4	4	4	2	
	102				27E	DKC	0.51	1388	804	707	2	
	103				31E	ESI	0.51	297	171	151	2	
	105				40E	DAI	0.71	198	141	120	2	
	106				51E	CRI	0.84	55	50	43	2	
	107				54E	DAI	0.83	210	187	120	2	
	108				62E	HSX	0.91	84	100	95	2	
	109				64E	HRX	0.90	25	28	28	2	
	110	2-21.8	-15	92	43W	BXO	0.68	8	6	3	2	

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day	Group	CMP		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See
		Mo-Day	Mo-Day							Whole	Max	
26.10	94					48W	HSX	0.74	76	56	56	4
	97					14W	EKI	0.30	1493	782	740	4
	98					10W	BXO	0.45	21	12	2	4
	99					1E	CAO	0.06	610	305	286	4
	102					15E	EKI	0.34	1321	703	612	4
	103					18E	CSI	0.31	378	199	192	4
	105					29E	CAI	0.60	286	178	163	4
	106					41E	BXI	0.74	17	12	3	4
	107					44E	DAI	0.74	307	227	137	4
	108					51E	HSX	0.83	126	112	109	4
	109					52E	HSX	0.78	50	40	40	4
	110					55E	CRD	0.82	29	25	11	4
	111	2-27.1	-16	22	16E	BXO	0.30		8	4	2	4
27.07	94					61W	HSX	0.86	34	33	33	3
	97					28W	DKC	0.51	1506	873	829	3
	98					26W	BXO	0.57	8	5	3	3
	99					12W	CHI	0.22	606	310	291	3
	102					2E	EKI	0.24	1316	678	574	3
	103					5E	CSO	0.10	362	182	180	3
	105					14E	CAI	0.44	265	147	136	3
	106					27E	BXI	0.61	21	13	3	3
	107					30E	CKI	0.57	475	290	275	3
	108					37E	HSX	0.70	126	88	86	3
	109					38E	CSO	0.62	63	40	38	3
	110					67W	CRD	0.91	29	35	25	3
	111					14W	AXX	0.37	8	5	2	3
	112	2-26.0	10	37	11W	AXX	0.48		4	2	2	3
	113	2-26.2	20	34	1E	BXO	0.15		8	4	2	3
	114	3- 3.1	-11	317	70E	AXX	0.93		4	6	6	3
28.07	94					74W	HRX	0.95	17	28	28	3
	97					42W	DKC	0.68	1106	752	701	3
	98					39W	BXI	0.71	8	6	3	3
	99					25W	CHI	0.43	559	309	286	3
	102					11W	EKI	0.31	1165	613	538	3
	103					6W	DSI	0.11	505	254	176	3
	105					1E	CSI	0.38	269	145	141	3
	106					14E	BXO	0.51	13	7	5	3

DAILY SUNSPOT OBSERVATIONS

FEBRUARY 1992

Day	Group	CMP		L	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
		Mo-Day	Lat						Whole	Max		
107					18E	DAI	0.41	341	187	62	3	
108					23E	DSI	0.57	193	118	98	3	
109					26E	CRI	0.45	50	28	14	3	
110					80W	BXO	0.98	8	20	10	3	
111					10W	BXI	0.22	13	6	2	3	
114					56E	CRI	0.82	34	29	22	3	
115		3- 2.4	-13	327	37E	BXO	0.61	8	5	3	3	
29.05	97				55W	DKC	0.83	799	712	648	2	
	98				54W	AXX	0.85	4	4	4	2	
	99				37W	DSI	0.61	421	265	133	2	
	102				24W	EKI	0.46	967	545	497	2	
	103				19W	DSI	0.32	378	200	149	2	
	105				11W	CSI	0.43	236	130	125	2	
	106				0W	BXO	0.44	8	5	2	2	
	107				5E	DRI	0.30	135	71	22	2	
	108				10E	CSI	0.47	105	60	52	2	
	109				14E	BXI	0.28	17	9	4	2	
	111				24W	AXX	0.43	4	2	2	2	
	114				42E	BXO	0.67	8	6	3	2	
	115				26E	BXO	0.46	8	5	2	2	
	116	2-25.1	-10	49	52W	AXX	0.78	8	7	3	2	

PREDICTED SMOOTHED SUNSPOT NUMBERS

OCTOBER 1991 — SEPTEMBER 1992

Date	Oct 91	Nov 91	Dec 91	Jan 92	Feb 92	Mar 92
R'	142.7	141.8	139.8	136.7	134.5	132.9
E'	4.3	7.1	9.8	16.4	20.2	22.6
Date	Apr 92	May 92	Jun 92	Jul 92	Aug 92	Sep 92
R'	130.8	128.8	126.5	123.4	120.2	117.1
E'	24.9	27.0	35.4	35.8	38.5	35.3

R': The predicted value of monthly smoothed sunspot numbers
E': The error of the predicted value and observed value.

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day	Group	CMP		L	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
		Mo-Day	Lat						Whole	Max		
1.06	97	2-24.9	3	52	69W	DKI	0.93	378	519	472	3	
	98	2-25.0	16	50	68W	AXX	0.94	4	6	6	3	
	99	2-26.2	-3	35	49W	DSI	0.75	551	414	149	3	
	102	2-27.2	7	21	37W	EKI	0.63	778	502	472	3	
	103	2-27.4	-10	18	33W	CSI	0.54	282	167	160	3	
	105	2-28.1	15	9	24W	CSI	0.54	219	130	122	3	
	106	2-29.0	19	357	12W	AXX	0.49	4	2	2	3	
	107	2-29.4	10	352	7W	CRI	0.33	34	18	7	3	
	108	2-29.9	19	346	2W	CSI	0.45	135	75	71	3	
	109	3- 1.1	-15	343	1E	BXI	0.15	13	6	4	3	
	111	2-27.1	-16	22	37W	AXX	0.61	4	3	3	3	
	114	3- 3.1	-11	317	30E	AXX	0.49	4	2	2	3	
	115	3- 2.4	-13	327	18E	AXX	0.31	4	2	2	3	
	117	2-25.7	-14	42	58W	BXI	0.84	13	12	4	3	
	118	3- 7.3	22	262	80E	HSX	0.99	13	42	42	3	
2.06	97				82W	HHX	0.99	105	348	348	4	
	99				62W	DSI	0.87	265	272	91	4	
	102				49W	EAI	0.77	349	274	165	4	
	103				46W	CSI	0.71	185	132	123	4	
	105				37W	CSI	0.69	118	81	73	4	
	106				25W	BXI	0.60	13	8	3	4	
	107				20W	BXI	0.45	25	14	2	4	
	108				15W	CSO	0.51	114	66	63	4	
	109				11W	BXI	0.22	17	9	2	4	
	114				18E	AXX	0.32	8	4	2	4	
	115				4E	BXI	0.13	17	8	2	4	
	117				71W	BXI	0.94	13	19	6	4	
	118				69E	HSX	0.95	21	35	35	4	
	119	3- 2.3	12	328	3E	AXX	0.33	4	2	2	4	
					75W	DSO	0.97	80	153	89	2	
3.06	99				62W	DKC	0.90	151	171	166	2	
	102				60W	HSX	0.86	126	124	124	2	
	103				50W	CSO	0.83	80	71	67	2	
	105				33W	BXI	0.61	13	8	3	2	
	107				28W	HSX	0.62	101	64	64	2	
	108				25W	BXI	0.44	13	7	2	2	
	109				1E	AXX	0.08	8	4	2	2	
	114											

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

CMP		Day Group			Mo-Day		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See Remarks	
													Whole	Max		
115									10W	BXI	0.20	13	6	2	2	
118									56E	HSX	0.87	38	39	39	2	
119									11W	AXX	0.37	4	2	2	2	
120					3- 3.6	1	311		7E	AXX	0.17	4	2	2	2	
4.04																
99									85W	HSX	0.99	17	56	56	3	
102									75W	DAO	0.97	42	81	65	3	
103									73W	HSX	0.95	67	112	112	3	
105									63W	HSX	0.92	50	64	64	3	
108									40W	HSX	0.74	84	62	62	3	
109									37W	BX0	0.60	8	5	3	3	
114									11W	BX0	0.21	8	4	2	3	
115									24W	BXI	0.41	13	7	2	3	
118									43E	HSX	0.77	46	36	36	3	
119									24W	AXX	0.52	4	2	2	3	
121					3- 1.9	-17	333		28W	BXI	0.48	34	19	10	3	
122					3- 5.0	-2	292		13E	AXX	0.24	4	2	2	3	
123					3- 9.7	12	230		77E	HSX	0.98	21	49	49	3	
5.24																
105									81W	HSX	0.99	17	56	56	3	
108									56W	HSX	0.87	59	60	60	3	
109									52W	AXX	0.78	4	3	3	3	
114									25W	AXX	0.41	4	2	2	3	
115									39W	BXI	0.62	13	8	3	3	
118									27E	HRX	0.63	42	27	27	3	
121									46W	CRI	0.71	71	51	30	3	
123									60E	HSX	0.89	46	50	50	3	
124					3- 4.3	-13	301		12W	AXX	0.23	8	4	2	3	
125					3- 4.9	4	294		5W	CRI	0.21	29	15	11	3	
6.07																
108									67W	HSX	0.94	38	57	57	3	
118									16E	HRX	0.55	34	20	20	3	
121									58W	CRI	0.84	46	43	31	3	
123									50E	CRD	0.79	46	38	35	3	
125									16W	BXI	0.33	17	9	4	3	
126					3- 7.9	-15	253		22E	AXX	0.40	8	5	2	3	
127					3-12.1	-10	198		81E	CRI	0.98	25	59	30	3	
7.03																
108									80W	AXX	0.99	8	28	28	3	
118									4E	HRX	0.48	42	24	24	3	

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day Group	CMP		L	Lat	CMD	Type	r/R	Sd	Corre. Area		See
	Mo-Day	Lat							Whole	Max	
121					72W	CR0	0.93	25	35	29	3
123					37E	CS0	0.67	59	39	34	3
124					43W	BX0	0.68	8	6	3	3
125					30W	BX0	0.52	13	7	5	3
126					15E	BXI	0.29	8	4	2	3
127					70E	DRI	0.92	67	86	27	3
128	3- 6.7	15	270		5W	AXX	0.38	8	5	5	3
129	3-13.0	14	187		80E	HRX	0.99	13	42	42	3
130	3-13.1	-24	185		81E	DRI	0.98	29	69	30	3
8.06 118					9W	HRX	0.51	34	19	19	4
123					23E	CSI	0.51	76	44	37	4
124					56W	DRI	0.83	63	56	15	4
126					2W	BX0	0.15	8	4	2	4
127					54E	DAI	0.79	139	114	90	4
128					19W	AXX	0.48	8	5	2	4
129					65E	HSX	0.92	29	37	37	4
130					67E	DS0	0.91	80	95	55	4
131	3- 9.2	-5	237		17E	BXI	0.30	34	18	2	4
9.06 118					21W	HSX	0.57	42	26	26	4
123					9E	CSI	0.36	143	77	68	4
124					70W	DAI	0.93	214	294	202	4
126					16W	BXI	0.30	8	4	2	4
127					40E	DAI	0.64	391	256	159	4
128					29W	AXX	0.59	8	5	3	4
129					51E	HSX	0.82	63	55	55	4
130					54E	DSI	0.80	210	177	67	4
131					2E	DRI	0.06	172	86	32	4
132	3- 9.1	-36	238		1E	DRI	0.49	105	60	24	4
133	3-12.6	-15	192		53E	AXX	0.79	8	7	3	4
10.05 118					35W	HSX	0.70	38	27	27	4
123					4W	CSI	0.34	109	58	45	4
124					82W	CS0	0.99	59	195	167	4
126					29W	BXI	0.48	8	5	2	4
127					28E	DAI	0.45	336	188	118	4
128					43W	AXX	0.74	8	6	3	4
129					38E	HSX	0.68	101	69	69	4
130					40E	DSI	0.66	236	156	61	4

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day Group	CMP Mo-Day	Lat	L	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
								Whole	Max		
131				12W	DRI	0.23	126	65	22	4	
132				13W	CSI	0.53	143	84	74	4	
133				38E	AXX	0.60	8	5	3	4	
134	3-15.9	-14	149	77E	HSX	0.97	50	97	97	4	
135	3-16.6	-16	139	84E	HSX	0.99	38	125	125	4	
11.04 118				48W	AXX	0.82	17	15	15	4	
123				18W	CRI	0.45	63	35	31	4	
127				14E	DAI	0.23	181	93	56	4	
128				56W	AXX	0.85	8	8	4	4	
129				24E	HSX	0.53	126	74	74	4	
130				26E	DRI	0.49	88	51	22	4	
131				27W	CSI	0.48	126	72	60	4	
132				25W	CSI	0.61	84	53	48	4	
133				23E	AXX	0.40	8	5	2	4	
134				64E	HSX	0.89	101	108	108	4	
135				74E	DSO	0.94	126	189	101	4	
136	3-16.7	-25	138	75E	CRO	0.94	46	69	57	4	
12.05 118				60W	AXX	0.90	4	5	5	4	
123				31W	CRO	0.60	42	26	21	4	
127				1E	DAI	0.05	185	93	67	4	
128				70W	AXX	0.94	4	6	6	4	
129				11E	HSX	0.40	151	83	83	4	
130				14E	BXI	0.37	46	25	11	4	
131				41W	CRI	0.67	46	31	20	4	
132				38W	CSI	0.71	55	39	27	4	
133				10E	BXO	0.23	8	4	2	4	
134				50E	HSX	0.76	164	126	126	4	
135				61E	DSI	0.86	240	236	104	4	
136				62E	DSI	0.87	101	104	48	4	
137	3- 8.4	18	247	48W	BXO	0.80	8	7	4	4	
138	3-16.8	18	137	66E	AXX	0.93	8	12	12	4	
13.04 123				43W	AXX	0.72	13	9	6	4	
127				13W	CAI	0.23	151	78	65	4	
129				1W	HSX	0.36	109	59	56	4	
130				1E	BXI	0.29	29	15	4	4	
131				54W	CRI	0.80	50	42	18	4	
132				51W	CDI	0.80	21	18	14	4	

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day Group	CMP Mo-Day	Lat	L	CMD	Type	r/R	Sd	Corre. Area		See	Remarks
								Whole	Max		
133				6W	BX0	0.18	8	4	2	4	
134				37E	HSX	0.60	210	131	131	4	
135				47E	DAI	0.74	383	282	124	4	
136				49E	ESI	0.76	210	161	74	4	
138				52E	AXX	0.83	8	7	4	4	
139	3-11.8	1	202	16W	BXI	0.31	8	4	2	4	
140	3-14.4	-23	169	17E	BXI	0.39	8	5	2	4	
141	3-17.5	-14	127	58E	AXX	0.84	8	8	4	4	
14.05	123			57W	AXX	0.85	13	12	8	3	
127				27W	CAI	0.45	143	80	71	3	
129				14W	HSX	0.41	130	72	69	3	
130				11W	BXI	0.34	21	11	4	3	
131				67W	CRI	0.91	50	60	45	3	
132				62W	AXX	0.90	13	14	9	3	
133				17W	BX0	0.30	8	4	2	3	
134				24E	HSX	0.41	122	67	62	3	
135				35E	DKI	0.59	597	369	291	3	
136				36E	ESI	0.63	345	223	71	3	
138				38E	BX0	0.71	13	9	6	3	
139				29W	BXI	0.48	8	5	2	3	
140				4E	BX0	0.29	8	4	2	3	
141				45E	BX0	0.70	8	6	3	3	
15.06	127			40W	CSI	0.62	147	94	89	4	
129				27W	HSX	0.55	63	38	38	4	
130				25W	BX0	0.48	8	5	2	4	
131				78W	BXI	0.98	8	20	10	4	
132				74W	AXX	0.95	8	14	14	4	
134				10E	HSX	0.21	130	67	64	4	
135				20E	DAI	0.37	530	285	158	4	
136				22E	EAI	0.47	505	286	112	4	
138				24E	BX0	0.57	8	5	3	4	
139				41W	BXI	0.67	8	6	3	4	
140				6W	CRI	0.32	63	33	22	4	
141				30E	BX0	0.51	8	5	2	4	
142	3-10.5	-8	220	60W	BX0	0.86	8	8	4	4	
16.05	127			50W	DRI	0.76	156	119	55	4	
129				39W	HXX	0.69	29	20	17	4	

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

		CMP						Corre. Area			
Day	Group	Mo-Day	Lat	L	CMD	Type	r/R	Sd	Whole	Max	See Remarks
134					2W	CSI	0.11	109	55	51	4
135					8E	DAI	0.21	517	264	206	4
136					9E	EAI	0.34	336	179	119	4
138					11E	BXI	0.47	8	5	2	4
140					18W	BXI	0.43	17	9	2	4
141					15E	AXX	0.28	8	4	2	4
142					77W	AXX	0.97	4	8	8	4
143		3-20.4	-7	89	58E	AXX	0.84	4	4	4	4
17.06	127				65W	DRI	0.90	67	76	47	3
	129				52W	HRX	0.82	17	15	15	3
	134				15W	CSO	0.29	88	46	44	3
	135				6W	DAI	0.20	421	214	180	3
	136				5W	EAI	0.32	294	155	104	3
	138				4W	AXX	0.44	4	2	2	3
	140				30W	BXO	0.55	8	5	3	3
	141				6E	BXO	0.15	8	4	2	3
	144	3-22.8	5	57	77E	HSX	0.98	84	197	197	3
18.04	127				78W	CRO	0.97	21	40	32	4
	129				64W	AXX	0.92	4	5	5	4
	134				28W	CSO	0.47	59	33	31	4
	135				19W	DAI	0.34	437	233	197	4
	136				18W	EAI	0.41	227	125	83	4
	140				45W	AXX	0.72	8	6	3	4
	144				63E	HSX	0.90	160	180	180	4
	145	3-23.7	3	46	74E	AXX	0.95	4	7	7	4
19.05	134				40W	HRX	0.64	21	14	14	3 PLAT
	135				31W	CAI	0.52	307	179	170	3 PLAT
	136				29W	CAI	0.54	80	47	35	3 PLAT
	144				50E	CAO	0.77	278	218	214	3 PLAT
	145				64E	CRI	0.90	50	57	19	3 PLAT
	146	3-18.4	-14	116	9W	AXX	0.20	4	2	2	3 PLAT
20.04	134				54W	HRX	0.80	25	21	21	3
	135				47W	CAO	0.72	214	155	152	3
	136				42W	CRO	0.71	46	33	27	3
	144				36E	HSX	0.61	307	194	194	3
	145				50E	DAI	0.77	412	323	165	3

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day Group	CMP		Lat	L	CMD Type	r/R	Sd	Corre. Area		See Remarks
	Mo-Day							Whole	Max	
147	3-19.0	0	108	14W	BX0	0.26	8	4	2	3
148	3-21.8	-14	71	16E	AXX	0.47	4	2	2	3
149	3-25.7	6	20	75E	BXI	0.97	25	48	16	3
150	3-25.8	-10	19	76E	HSX	0.97	42	81	81	3
21.03	134			67W	HRX	0.91	13	15	15	4
135				60W	HAX	0.86	147	145	141	4
136				58W	HRX	0.85	17	16	16	4
144				23E	HSX	0.44	336	187	187	4
145				36E	DAI	0.60	551	344	210	4
147				26W	BXI	0.46	17	9	5	4
148				10E	AXX	0.22	4	2	2	4
149				62E	CRO	0.89	21	23	18	4
150				63E	HSX	0.89	80	86	86	4
151	3-24.2	-3	39	42E	AXX	0.67	4	3	3	4
22.09	134			79W	AXX	0.98	4	10	10	3
135				74W	CAI	0.95	80	133	126	3
136				70W	BX0	0.93	13	17	12	3
144				9E	HSX	0.26	294	153	153	3
145				21E	DAI	0.38	618	334	255	3
147				40W	BX0	0.66	8	6	3	3
149				48E	HRX	0.76	25	19	19	3
150				48E	CS0	0.74	122	90	87	3
152	3-24.9	5	30	40E	AXX	0.66	4	3	3	3
153	3-25.7	-14	19	48E	BX0	0.72	13	9	6	3
23.06	144			3W	HSX	0.22	257	131	131	3
145				8E	DAI	0.23	437	225	76	3
147				56W	AXX	0.83	8	7	4	3
149				35E	AXX	0.60	13	8	3	3
150				34E	CS0	0.56	147	89	81	3
152				26E	BXI	0.46	8	5	2	3
153				36E	AXX	0.59	8	5	3	3
154	3-28.8	-9	338	78E	BXI	0.97	8	16	8	3
155	3-29.1	6	334	81E	BX0	0.98	8	20	10	3
24.06	144			17W	HSX	0.34	240	128	128	3
145				5W	DSI	0.20	202	103	45	3
147				70W	AXX	0.94	8	13	6	3

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

Day Group	CMP		Lat	L	CMD	Type	r/R	Sd	Corre. Area		See
	Mo-Day								Whole	Max	
148					35W	AXX	0.60	8	5	3	3
149					21E	AXX	0.41	13	7	5	3
150					21E	CSO	0.36	168	90	81	3
152					11E	BXI	0.29	25	13	2	3
153					19E	BXD	0.34	8	4	2	3
154					66E	CRI	0.90	67	76	57	3
155					68E	DSI	0.92	143	182	64	3
156	3-22.5	1	62		21W	AXX	0.38	8	5	2	3
25.06 144					30W	HSX	0.53	151	89	57	4
145					18W	DRI	0.37	109	59	27	4
149					8E	BXI	0.26	13	7	4	4
150					8E	CSI	0.15	181	91	85	4
152					2W	BXI	0.21	17	9	2	4
153					9E	BXI	0.21	8	4	2	4
154					52E	DSI	0.77	147	115	66	4
155					54E	EAI	0.80	715	602	312	4
157	3-20.4	1	89		61W	AXX	0.87	4	4	4	4
158	3-20.2	-11	92		64W	AXX	0.89	4	5	5	4
26.06 144					43W	HSX	0.69	130	90	64	4
145					31W	CRO	0.53	25	15	5	4
148					64W	AXX	0.89	4	5	5	4
150					4W	HSX	0.09	156	78	78	4
152					16W	BXI	0.33	13	7	2	4
154					37E	DAI	0.57	521	319	221	4
155					40E	EKI	0.66	1321	874	367	4
159	3-26.5	-12	9		6E	AXX	0.13	8	4	2	4
160	3-28.4	-14	344		28E	BXD	0.47	8	5	2	4
27.04 144					56W	HSX	0.84	55	50	43	4
145					44W	BXD	0.70	8	6	3	4
148					74W	HSX	0.95	42	70	70	4
150					17W	HSX	0.29	160	83	83	4
152					28W	BXI	0.49	8	5	2	4
154					24E	DAI	0.39	681	370	85	4
155					27E	EKC	0.51	1800	1043	475	4
160					15E	BXI	0.26	8	4	2	4
161	3-30.5	-17	316		46E	BXI	0.71	8	6	3	4
162	3-31.7	-20	300		60E	BXI	0.86	8	8	4	4

DAILY SUNSPOT OBSERVATIONS

MARCH 1992

		CMP								Corre. Area		See	Remarks
Day	Group	Mo-Day	Lat	L	CMD	Type	r/R	Sd	Whole	Max			
28.08	144				71W	HSX	0.94	21	31	25	3		
	145				56W	AXX	0.83	8	7	4	3		
	150				30W	HSX	0.49	101	58	58	3		
	152				40W	BXI	0.64	8	5	3	3		
	154				10E	DAI	0.16	555	281	181	3		
	155				14E	FKC	0.33	2103	1115	451	3		
	159				21W	AXX	0.37	8	5	2	3		
	160				4E	AXX	0.21	8	4	2	3		
	161				33E	DRI	0.56	76	46	20	3		
	163	3-30.0	-11	323	24E	AXX	0.40	8	5	2	3		
29.22	150				45W	HSX	0.70	71	50	50	3		
	152				55W	AXX	0.83	8	7	4	3		
	154				5W	EAD	0.13	568	286	229	3		
	155				1W	FKC	0.21	2759	1410	662	3		
	160				15W	BXI	0.30	21	11	4	3		
	161				17E	DAI	0.34	538	287	175	3		
	162				33E	AXX	0.56	8	5	3	3		
	163				10E	BXI	0.20	8	4	2	3		
30.06	150				55W	HSX	0.82	50	44	44	3		
	154				18W	DAI	0.32	463	244	211	3		
	155				11W	FKC	0.30	3011	1578	826	3		
	160				28W	BXI	0.47	17	10	5	3		
	161				6E	DKI	0.21	925	473	254	3		
	162				22E	AXX	0.43	4	2	2	3		
	163				1W	AXX	0.08	4	2	2	3		
31.06	150				69W	HRX	0.93	21	29	29	4		
	154				32W	DAI	0.53	421	248	218	4		
	155				24W	FKC	0.46	2565	1444	734	4		
	160				43W	BXO	0.67	8	6	3	4		
	161				7W	DAI	0.22	631	323	177	4		
	162				9E	BXI	0.29	8	4	2	4		
	163				17W	BXI	0.30	25	13	4	4		

H-ALPHA SOLAR FLARES

FEBRUARY 1992

Day	Sta	T i m e			Lat	L	CMD	Area Measurement			Obs Imp	Type	A.R.	Rem
		Start	Max	End				Cen	Appar	Corr				
		(UT)	(UT)	(UT)				Dist	(Sd)	(Sq)				
3	BEIJ	0520	0525	0530	S14	295	E42	.667	168	2.3	1F	P	68	E
3	BEIJ	0658E	0700	0724	S11	307	E29	.483	126	1.5	SN	C	63	D
3	YUNN	0732E	0733	0750	N 5	65	W89	1.00	32		SN	P	71	A
3	YUNN	0733	0734	0752	S16	341	W 5	.185	241	2.5	1N	P	57	F
4	BEIJ	0440	0443	0450	S15	301	E24	.425	84	1.0	SN	p	63	D
4	YUNN	0538	0550	0602	N 6	24	W60	.878	32	0.7	SN	P	49	
5	YUNN	0510	0530	0610	S14	333	W22	.387	338	3.8	1N	P	59	F
5	YUNN	0634	0642	0803	N 6	21	W71	.948	241		2N	P	49	
6	YUNN	0332E	0340	0406	N 8	28	W89	1.00				P	49	Y
7	YUNN	0332	0347	0403	S14	333	W47	.734	96	1.5	SN	P	59	E
7	YUNN	0542	0557	0618	S11	13	W89	1.00				P	54	A
9	BEIJ	0533	0543	0558	S23	202	E56	.828	210	3.9	1N	P	82	E
10	YUNN	0155	0159	0207D	N10	219	E28	.540	32	0.4	SN	P	78	
10	BEIJ	0246	0250	0308	N12	217	E30	.586	42	0.5	SB	P	78	D
10	YUNN	0248E	0248U	0317	N12	217	E30	.573	64	0.8	SN	P	78	
10	YUNN	0842	0847	0910	S22	201	E42	.683	370	5.2	2N	P	82	F
10	URUM	0845	0854	0910	S23	199	E44	.708	80	1.2	SF	C	82	E
10	YUNN	0855	0903	0910D	S23	329	W86	.993				P	59	A
11	BEIJ	0340	0341	0410	N12	218	E15	.402	126	1.4	SN	P	78	D
11	URUM	0601	0613	0629	N25	265	W34	.719	64	1.0	SF	C	81	E
12	BEIJ	0212	0213	0215	N15	227	W 6	.379	42	0.5	SN	P	78	D
12	BEIJ	0512	0514	0525	N15	227	W 8	.379	42	0.5	SN	P	78	D
14	YUNN	0720E	0730	0739	S10	178	E13	.225	129	1.4	SN	P	85	
15	BEIJ	0312	0314	0318	S10	182	W 1	.080	168	1.7	SN	C	85	E
15	YUNN	0334E	0334U	0339D	S12	181	W 1	.091	129	1.3	SN	P	85	E
15	BEIJ	0452	0500	0540	S10	180	0	.080	168	1.7	SB	P	85	E
16	BEIJ	0340	0346	0405	S15	183	W16	.299	168	1.8	SN	C	85	E

H-ALPHA SOLAR FLARES

FEBRUARY 1992

Day	Sta	T i m e			Lat	L	CMD	Area Measurement			Obs			A.R.	Rem
		Start	Max	End				Cen	Appar	Corr					
		(UT)	(UT)	(UT)				Dist	(Sd)	(Sq)	Imp	Type			
17	BEIJ	0056	0134	0246	S14	185	W30	.517	294	3.6	1N	P		85	E
17	YUNN	0113E	0113U	0135	N16	223	W68	.944	32		SN	P		78	D
17	YUNN	0114E	0114U	0223	S12	186	W31	.513	482	5.8	2N	P		85	F
17	YUNN	0317E	0317U	0325	S 6	187	W33	.547	32	0.4	SN	P		85	
19	BEIJ	0337	0341	0415	N 5	48	E80	.988	126		1B	C		97	D
20	BEIJ	0522	0525	0531	N 2	51	E63	.885	126	2.8	1B	C		97	D
21	BEIJ	0535E	0537	0640	S29	67	E33	.609	420	5.5	2F	P			U
24	BEIJ	0215	0216	0239	S 2	31	E32	.529	336	4.1	1B	P		99	E
25	BEIJ	0045E	0054	0314	N 8	26	E24	.483	630	7.4	2B	P		102	U
28	BEIJ	0212	0225	0300	S16	307	E63	.874	336	7.1	2B	P		114	E

H-ALPHA SOLAR FLARES

MARCH 1992

Day	Sta	T i m e			Lat	L	CMD	Area Measurement			Imp	Obs Type	A.R.	Rem
		Start	Max	End				Cen	Appar	Corr				
		(UT)	(UT)	(UT)				Dist	(Sd)	(Sq)				
9	BEIJ	0042	0044	0112	S 5	232	E 7	.126	42	0.4	SN	C	131	D
9	BEIJ	0240	0245	0319	S11	190	E48	.724	126	1.9	SF	C	127	E
9	BEIJ	0642	0643	0655	S 7	240	W 4	.023	84	0.9	SN	P	131	D
11	YUNN	0709E	0709U	0714	S21	134	E75	.958	63		SN	P	136	
13	YUNN	0906	0908U	0917D	S 8	201	W19	.328	16	0.2	SN	P	127	E
14	YUNN	0236	0245	0305	S22	181	W 9	.290	79	0.9	SB	C	130	
15	YUNN	0120	0147	0413	S16	134	E25	.445	943	10.9	2B	C	135	F
15	YUNN	0236	0241	0300	S25	165	W 6	.314	94	1.0	SN	C	140	E
15	YUNN	0357	0410	0425	S 6	164	W 6	.336	79	0.9	SN	C	140	
16	YUNN	0245	0248	0307	S23	165	W19	.409	31	0.4	SN	C	140	E
17	YUNN	0158E	0158U	0222	S 7	215	W82	.987				P	142	A
25	BEIJ	0050E	0054	0114	N 6	331	E56	.828	42	0.8	SB	P	155	D
25	BEIJ	0148	0150	0154	N 6	331	E56	.828	42	0.8	SN	P	155	D
29	BEIJ	0057	0100	0130	S20	315	E20	.402	84	1.0	SN	P	161	E
30	BEIJ	0050E	0050	0100	N 9	331	W 9	.310	84	0.9	SN	P	155	D
30	YUNN	0540E	0550	0606	S 9	351	W32	.530	79	1.0	SN	P	160	
31	YUNN	0220	0229	0229D	S10	339	W31	.512	24	0.3	SN	P	154	D
31	YUNN	0357E	0357U	0405	N 5	342	W35	.607	31	0.4	SN	P	155	D
31	YUNN	0700	0717	0856	N 6	24	W79	.984				C		AG
31	YUNN	0729	0737	0742	S11	325	W20	.347	94	1.0	SN	C	163	E

INTERVALS OF H-ALPHA FLARE PATROL OBSERVATION

FEBRUARY 1992

Day	From	To	From	To	From	To	From	To	From	To	From	To
1	120	440										
2	120	530										
3	45	812										
4	30	730										
5	35	915										
6	40	730										
7	135	730										
8	35	755										
9	140	730	814	837	847	902						
10	110	730	825	910								
11	125	730										
12	110	622	640	651	657	736	747	800	810	903		
13	310	730	810	859								
14	55	739										
15	45	700										
16	40	630	845	858								
17	45	735										
18	115	735										
19	100	730										
20	100	810	818	852	907	912						
21	105	715										
22	100	700										
23	120	730										
24	105	855										
25	150	620										
26	115	730										
27	55	730										
28	105	600	704	815								
29	130	700										

Combined reports from the observatories listed below:

BEIJ URUM YUNN

INTERVALS OF H-ALPHA FLARE PATROL OBSERVATION

MARCH 1992

Day	From	To	From	To	From	To	From	To	From	To	From	To	From	To
1	345	445												
2	129	329	600	700										
3	156	230	302	306										
4	138	253	320	700										
5	130	730												
6	130	500												
7	100	600												
8	150	700												
9	44	730												
10	105	836												
11	200	811	825	837	843	852								
12	114	321	520	600	648	913								
13	55	730	748	828	906	917								
14	111	325	500	819										
15	114	700												
16	115	740	822	845										
17	50	730												
18	55	705												
19	100	205	400	730										
20	117	420												
21	114	726												
22														
23	229	346												
24	57	727												
25	50	730												
26	50	730												
27	310	430												
28	150	737												
29	35	310	711	720										
30	45	730	909	921										
31	134	155	217	229	357	410	547	619	627	648	709	737	843	856

Combined reports from the observatories listed below:

BEIJ YUNN

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
1	6.7	20	-14	69	S5 L5
		21	- 7	30	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		22	7	22	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		23	17	44	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		24	6	37	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		25	-13	40	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		26	-13	9	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		27	7	351	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		28	-19	347	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		29	-19	(331)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		30	4	319	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		31	-14	306	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		32	-29	300	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
2	353.5	21			S5 L5
		22			S5 L5
		23			S5 L5
		25			S5 L5
		26			S5 L5
		27			S5 L5
		28			S5 L5
		29			S5 L5
		30			S5 L5
		31			S5 L5
		32			S5 L5
3	340.4	21			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		22			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		23			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		25			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		26			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		27			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		28			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		29			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		30			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		31			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		32			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
4	327.2	21			D4 V4 S5 L5 D5 V5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

HUAIROU ST. BEIJING OBS.

FEBRUARY 1992

Day	LO	Huairou	Lat	L	Data
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22					D4 V4 S5 L5 D5 V5 TS QS US
23					D4 V4 S5 L5 D5 V5 TS QS US
26					D4 V4 S5 L5 D5 V5 TS QS US
27					D4 V4 S5 L5 D5 V5 TS QS US
28					D4 V4 S5 L5 D5 V5 TS QS US
29					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
30					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
31					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
32					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
33					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
34					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
34			-19	341	S4 L4 D4 V4 S5 L5 D5 V5 TS QS US

21	5	314.0			D4 V4 S5 L5 D5 V5
22					D4 V4 S5 L5 D5 V5
26					D4 V4 S5 L5 D5 V5
27					D4 V4 S5 L5 D5 V5
29					D4 V4 S5 L5 D5 V5 TS QS US
30					D4 V4 S5 L5 D5 V5 TS QS US
31					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
32					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
33					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
34					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
35			- 4	264	S4 L4 D4 V4 S5 L5 D5 V5 TS QS US

22	6	300.9			D4 V4 S5 L5 D5 V5
26					D4 V4 S5 L5 D5 V5
27					D4 V4 S5 L5 D5 V5
29					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
30					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
31					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
32					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
33					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
34					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
35					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
36			11	218	S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
29	7	287.7			S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
30					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US
31					S4 L4 D4 V4 S5 L5 D5 V5 TS QS US

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		32			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		35			D4 V4 S5 L5 D5 V5
		36			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		37			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		38			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		39			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		40			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		41			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		42	-18	250	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
12	221.9	35			S5 L5
		36			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		37			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		38			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		39			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		40			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		41			L4 D4 V4 S5 L5 D5 V5 Q5 U5
		42			L4 D4 V4 S5 L5 D5 V5 Q5 U5
13	208.7	35			D4 V4 S5 L5 D5 V5
		36			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		37			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		38			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		39			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		40			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		41			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		42			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		43	-13	197	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		44	-15	(146)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
14	195.5	35			S5 L5
		36			S5 L5
		37			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		38			S5 L5
		39			S4 S5 L5
		40			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		41			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		42			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		43			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
15	182.4	44			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		36			S5 L5
		37			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		39			S5 L5
		40			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		42			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		43			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
16	169.2	44			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		36			S5 L5
		39			S5 L5
		40			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		44			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		45	14	186	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		46	-15	118	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
17	156.0	36			S5 L5
		39			S5 L5
		40			S5 L5 T5 Q5 U5
		44			S5 L5 T5 Q5 U5
		45			S5 L5 T5 Q5 U5
		46			S5 L5 T5 Q5 U5
19	129.7	40			D4 V4 S5 L5 D5 V5
		44			D4 V4 S5 L5 D5 V5
		45			D4 V4 S5 L5 D5 V5
		46			D4 V4 S5 L5 D5 V5
		47	- 9	(146)	D4 V4 S5 L5 D5 V5
		48	(-13)	138	D4 V4 S5 L5 D5 V5
		49	15	54	D4 V4 S5 L5 D5 V5
		50	1	52	D4 V4 S5 L5 D5 V5
20	116.5	40			D4 V4 S5 L5 D5 V5
		44			D4 V4 S5 L5 D5 V5
		45			D4 V4 S5 L5 D5 V5
		46			D4 V4 S5 L5 D5 V5
		47			D4 V4 S5 L5 D5 V5
		48			D4 V4 S5 L5 D5 V5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
21	103.4	49			D4 V4 S5 L5 D5 V5
		50			D4 V4 S5 L5 D5 V5
		51	- 4	38	D4 V4 S5 L5 D5 V5
		40			S4 S5 L5
		44			S4 S5 L5
22	90.2	45			S4 S5 L5
		46			S4 S5 L5
		47			S4 S5 L5
		48			S4 S5 L5
		49			S4 S5 L5
		50			S4 D4 V4 S5 L5 D5 V5
		51			S4 L4 D4 V4 S5 L5 D5 V5
		52	- 6	106	S4 L4 D4 V4 S5 L5 D5 V5
		53	8	19	S4 L4 D4 V4 S5 L5 D5 V5
		54	-13	19	S4 L4 D4 V4 S5 L5 D5 V5
					L5
					S5 L5
					S5 L5
					S5 L5
					S4 L4 D4 V4 S5 L5 D5 V5
23	77.0	50			S4 L4 D4 V4 S5 L5 D5 V5
		51			S4 L4 D4 V4 S5 L5 D5 V5
		52			S4 L4 D4 V4 S5 L5 D5 V5
		53			S4 L4 D4 V4 S5 L5 D5 V5
		54			S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 S5 L5
					S4 L4 S5 L5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5
24	63.8	47			S5 L5
		49			S5 L5
		50			S4 L4 D4 V4 S5 L5 D5 V5
					S4 L4 D4 V4 S5 L5 D5 V5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
25	50.7	47			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		49			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		50			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		51			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		52			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		53			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		54			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		56			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		57	10	351	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		58	-12	347	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		47			S4 L4 S5 L5
		49			S4 L4 S5 L5
		50			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		51			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		52			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		53			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		54			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		56			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		57			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		58			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		60	-16	95	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		61	18	346	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
26	37.5	47			S5 L5
		49			S5 L5
		50			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		51			D4 V4 S5 L5 D5 V5
		52			D4 V4 S5 L5 D5 V5
		53			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		54			D4 V4 S5 L5 D5 V5
		56			D4 V4 S5 L5 D5 V5
		57			D4 V4 S5 L5 D5 V5
		58			D4 V4 S5 L5 D5 V5
		60			D4 V4 S5 L5 D5 V5
		61			D4 V4 S5 L5 D5 V5
27	24.3	47			S5 L5
		49			S5 L5
		50			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		51			D4 V4 S5 L5 D5 V5
		52			D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

FEBRUARY 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		53			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		54			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		56			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		57			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		58			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		60			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		61			D4 V4 S5 L5 D5 V5 T5 Q5 U5
28	11.2	47			S5 L5
		49			S5 L5
		50			D4 V4 S5 L5 D5 V5
		51			S5 L5
		52			D4 V4 S5 L5 D5 V5
		53			D4 V4 S5 L5 D5 V5
		54			D4 V4 S5 L5 D5 V5
		56			D4 V4 S5 L5 D5 V5
		57			D4 V4 S5 L5 D5 V5
		58			D4 V4 S5 L5 D5 V5
		61			D4 V4 S5 L5 D5 V5
29	358.0	50			S5 L5
		51			S5 L5
		53			S5 L5
		54			S5 L5
		56			S5 L5
		57			S5 L5
		58			S5 L5
		61			S5 L5

NPL SPL: 3 4 5 6 7 8 9 10 11 13 16 20 22

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

MARCH 1992

HUIROU ST. BEIJING OBS.

Day	L0	Huirou Region	Lat	L	Data
4	305.3	53	6	22	S5 L5
		56	17	1	S5 L5
		57	10	351	S5 L5
		58	-12	347	S5 L5
		61	18	346	S5 L5
5	292.1	56			S5 L5
		57			S5 L5
		58			S5 L5
		61			D4 V4 S5 L5 D5 V5
		62	-16	332	D4 V4 S5 L5 D5 V5
		63	4	295	D4 V4 S5 L5 D5 V5
6	278.9	64	22	262	D4 V4 S5 L5 D5 V5
		65	7	229	D4 V4 S5 L5 D5 V5
		61			S5 L5
		62			S5 L5
		63			S5 L5
7	265.8	64			S5 L5
		65			S5 L5
		66	-14	201	S5 L5
		62			S5 L5
		63			S5 L5
8	252.6	64			S5 L5
		65			D4 V4 S5 L5 D5 V5
		66			D4 V4 S5 L5 D5 V5
		67	15	268	D4 V4 S5 L5 D5 V5
		68	-24	183	D4 V4 S5 L5 D5 V5
9	239.4	64			S5 L5
		65			D4 V4 S5 L5 D5 V5
		66			D4 V4 S5 L5 D5 V5
		67			D4 V4 S5 L5 D5 V5
		68			D4 V4 S5 L5 D5 V5
		69	-15	(301)	D4 V4 S5 L5 D5 V5
		70	- 6	235	D4 V4 S5 L5 D5 V5
		71	12	190	D4 V4 S5 L5 D5 V5
9	239.4	64			S5 L5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

MARCH 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
		65			D4 V4 S5 L5 D5 V5
		66			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		67			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		68			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		69			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		70			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		71			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		72	-36	236	D4 V4 S5 L5 D5 V5 T5 Q5 U5
10	226.2	64			S5 L5
		65			S5 L5
		66			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		68			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		69			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		70			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		71			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		72			D4 V4 S5 L5 D5 V5 T5 Q5 U5
11	213.1	64			S5 L5
		65			S5 L5
		66			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		68			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		70			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		71			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		72			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		73	-14	144	L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		74	-25	136	L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
12	199.9	65			S5 L5
		66			S5 L5
		68			S5 L5
		70			S5 L5
		71			S5 L5
		72			S5 L5
		73			S5 L5
		74			S5 L5
13	186.7	65			S5 L5
		66			S5 L5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

MARCH 1992

HUIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
14	173.5	68			S5 L5
		70			S5 L5
		71			S5 L5
		72			S5 L5
		73			S5 L5
		74			S5 L5
15	160.4	66			S5 L5
		68			S5 L5
		70			S5 L5
		71			S5 L5
		72			S5 L5
		73			S5 L5
		74			S5 L5
16	147.2	66			S5 L5
		68			S5 L5
		70			S5 L5
		71			S5 L5
		72			S5 L5
		73			D4 V4 S5 L5 D5 V5
		74			D4 V4 S5 L5 D5 V5
		66			D4 V4 S5 L5 D5 V5
		68			D4 V4 S5 L5 D5 V5
		71			D4 V4 S5 L5 D5 V5
		73			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		74			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		75	-26	165	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
17	134.0	76	21	135	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		66			S5 L5
		68			S5 L5
		71			S5 L5
		73			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		74			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		75			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		76			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		77	- 5	57	L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

MARCH 1992

HUAIROU ST. BEIJING OBS.

Day	L0	Huairou Region	Lat	L	Data
18	120.8	66			S5 L5
		68			S5 L5
		71			S5 L5
		73			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		74			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		75			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		76			D4 V4 S5 L5 D5 V5 T5 Q5 U5
		77			D4 V4 S5 L5 D5 V5 T5 Q5 U5
19	107.6	73			D4 V4 S5 L5 D5 V5
		74			D4 V4 S5 L5 D5 V5
		75			D4 V4 S5 L5 D5 V5
		76			D4 V4 S5 L5 D5 V5
		77			D4 V4 S5 L5 D5 V5
21	81.3	73			D4 V4 S5 L5 D5 V5
		74			D4 V4 S5 L5 D5 V5
		77			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		78	3	44	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		79	1	108	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		80	5	30	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		81	-11	(19)	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
24	41.7	77			S5 L5
		78			S5 L5
		80			S5 L5
		81			S5 L5
		82	7	332	S5 L5
		83	-12	335	S5 L5
25	28.5	77			S5 L5
		78			S5 L5
		80			S4 L4 D4 V4 S5 L5 D5 V5
		81			S4 L4 D4 V4 S5 L5 D5 V5
		82			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		83			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
26	15.3	77			S5 L5

OBSERVATION OF MAGNETIC AND VELOCITY FIELDS OF SOLAR ACTIVE REGIONS

MARCH 1992

HUAIROU ST. BEIJING OBS.

Day	LO	Huairou Region	Lat	L	Data
		78			S5 L5
		80			L4 D4 V4 S5 L5 D5 V5
		81			L4 D4 V4 S5 L5 D5 V5
		82			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		83			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		84	-15	348	S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
27	2.1	77			S5 L5
		78			S5 L5
		80			S5 L5
		81			S5 L5
		82			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		83			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		84			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
28	348.9	77			S5 L5
		78			S5 L5
		80			S5 L5
		81			S5 L5
		82			D4 V4 S5 L5 D5 V5 Q5 U5
		83			D4 V4 S5 L5 D5 V5 Q5 U5
		84			D4 V4 S5 L5 D5 V5 Q5 U5
		85	-21	(300)	D4 V4 S5 L5 D5 V5 Q5 U5
29	335.8	82			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		83			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		84			L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		85			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
30	322.6	81			S5 L5
		82			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		83			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		84			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5
		85			S4 L4 D4 V4 S5 L5 D5 V5 T5 Q5 U5

NPL SPL: 5 6 7 8 9 10 11 12 13 16 21 26

SOLAR RADIO EMISSION FLUX

FEBRUARY 1992

Day	BEIJ 2840	PURP 2700	URUM 9375	YUNN 2840
1	322		336	239
2	318		381	238
3	309		403	235
4	291		396	227
5	275		390	216
6	272		374	211
7	262		353	207
8	258		357	207
9	256		341	216
10	265		348	211
11	260		353	234
12	245		361	202
13	221		335	192
14	222		351	196
15	244		347	184
16	224		356	189
17	235		345	189
18	205		328	198
19	221		352	198
20	222		368	194
21	262		378	199
22	266		383	221
23	267		353	213
24	276		387	217
25	315		381	239
26	284		379	226
27	272		366	217
28	261		357	215
29	241		347	199
Mean	261.1		362.3	211.3

SOLAR RADIO EMISSION FLUX

MARCH 1992

Day	BEIJ 2840	PURP 2700	URUM 9375	YUNN 2840
1	230		343	193
2	215		339	182
3	195		328	175
4	180		309	169
5	176		284	174
6	178			174
7	176			161
8	169			169
9	188		313	175
10	194			170
11	196		304	168
12	184		296	168
13	180		295	161
14	193		295	167
15	213		297	206
16	189		298	172
17	187		301	167
18	179		304	168
19	177		288	
20	180		301	169
21	184		300	170
22	180			170
23	168		302	165
24	188		315	168
25	196		319	169
26	180		326	176
27	203		312	170
28	219		296	179
29	214		329	172
30	220		322	172
31	211		315	179
Mean	191.7			172.6

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak	Density Rel Mean
01	2840	BEIJ	20 GRF	0219.0	0236.6	31.0	7.2	2.2
02	2840	BEIJ	20 GRF	0156.0	0235.8	60.0	9.7	3.1
02	2840	BEIJ	5 S	0424.0	0426.0	4.0	10.8	3.4
02	2840	BEIJ	41 F	0504.0	0507.0	14.0	10.8	3.4
03	2840	BEIJ	1 S	0156.0	0158.0	5.0	6.7	2.2
03	2840	BEIJ	5 S	0400.0	0401.8	8.0	10.0	3.2
03	9375	URUM	3 S	0405.0	0406.0	3.0	42.8	10.6
03	2840	BEIJ	20 GRF	0520.0	0522.6	32.0	7.2	2.3
03	9375	URUM	3 S	0702.7	0703.0	1.0	34.2	8.5
04	2840	BEIJ	41 F	0306.0	0327.8	44.0	37.5	12.9
05	2840	BEIJ	8 S	0134.4	0134.8	0.8	32.8	11.9
05	2840	BEIJ	21 GRF	0522.0	0552.0	127.0	16.6	6.0
05	2840	BEIJ	45 C	0633.0	0643.3	17.0	40.5	14.7
06	2840	BEIJ	45 C	0308.0	0316.7	54.0	38.1	14.0
06	2840	YUNN	21 GRF	0311.8	0316.6	7.5	21.0	
06	9375	URUM	3 S	0317.0	0319.8	22.0	276.9	74.0
07	9375	URUM	3 S	0346.0	0347.0	3.5	83.2	23.6
08	2840	BEIJ	45 C	0316.0	0321.5	14.0	178.0	69.0
08	9375	URUM	4 S/F	0325.5	0326.5	3.0	74.7	20.9
09	2840	BEIJ	45 C	0249.0	0250.5	30.0	22.7	8.8
10	2840	BEIJ	1 S	0106.0	0111.2	9.0	8.5	3.2
10	2840	BEIJ	1 S	0246.0	0249.4	10.0	6.2	2.3
11	2840	YUNN	3 S	0421.8	0422.7	6.2	330.5	
13	2840	BEIJ	3 S	0726.0	0727.5	5.0	17.0	7.7
14	2840	BEIJ	5 S	0044.0	0102.8	18.0	49.1	22.1
14	2840	YUNN	3 S	0804.2	0806.1	4.8	34.0	
15	2840	BEIJ	45 C	0120.0	0123.2	10.0	25.5	10.5
15	9375	URUM	3 S	0229.0	0230.0	2.0	19.3	5.6
15	9375	URUM	3 S	0241.0	0241.5	2.5	14.1	4.1
15	2840	BEIJ	1 S	0514.0	0515.6	3.0	9.6	3.9
15	2840	BEIJ	45 C	0830.0	0836.4	19.0	123.3	50.5
15	2840	YUNN	4 S/F	0835.0	0836.3	5.7	97.0	
17	2840	BEIJ	5 S	0050.0	0125.2	92.0	75.8	32.3
17	2840	BEIJ	45 C	0315.0	0315.6	9.0	38.2	16.3
18	2840	BEIJ	20 GRF	0334.0	0347.0	36.0	10.9	5.3
18	9375	URUM	3 S	0344.0	0344.5	1.5	11.8	3.6
18	2840	BEIJ	20 GRF	0430.0	0524.4	106.0	16.3	7.9
19	2840	BEIJ	1 S	0649.0	0651.2	6.0	5.3	2.4
20	2840	BEIJ	5 S	0403.0	0406.0	6.0	25.0	11.3
20	2840	BEIJ	45 C	0520.0	0523.7	10.0	16.3	7.3

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak	Density Rel Mean
20	2840	BEIJ	5 S	0708.0	0711.5	11.0	5.4	2.4
21	2840	YUNW	20 GRF	0258.0	0323.5	35.0	80.0	
21	2840	BEIJ	45 C	0300.0	0323.0	108.0	79.9	30.4
23	2840	BEIJ	1 S	0039.0	0039.9	2.0	7.1	2.7
24	2840	BEIJ	5 S	0604.0	0605.2	4.0	11.4	4.1
25	2840	BEIJ	5 S	0041.0	0054.3	43.0	452.0	143.5
25	2840	YUNW	3 S	0049.3	0054.2	19.7	231.0	
25	2840	BEIJ	20 GRF	0412.0	0432.3	44.0	10.5	3.3
25	2840	BEIJ	20 GRF	0700.0	0730.7	47.0	7.9	2.5
27	2840	BEIJ	3 S	0607.0	0608.3	17.0	26.6	9.8
27	2840	BEIJ	3 S	0659.0	0701.3	12.0	14.8	5.5
27	2840	YUNW	3 S	0808.0	0808.8	1.5	121.9	
28	2840	BEIJ	1 S	0309.0	0310.4	4.0	3.7	1.4
29	2840	YUNW	3 S	0740.3	0740.7	0.9	35.2	
29	2840	BEIJ	4 S/F	0754.0	0754.8	3.0	48.3	21.0

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

MARCH 1992

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Peak Flux	Rel Density	Mean
01	2840	BEIJ	45 C	0532.0	0535.2	6.0	22.0	9.6	
07	2840	BEIJ	23 GRF	0159.0	0207.4	16.0	20.4	11.6	
07	2840	BEIJ	20 GRF	0830.0	0838.8	22.0	22.1	12.5	
09	2840	BEIJ	20 GRF	0215.0	0235.7	45.0	8.7	4.6	
15	2840	BEIJ	47 GB	0112.0	0147.6	9.0	871.0	409.0	
15	2840	YUNN	49 GB	0128.0	0150.5	52.6	916.0		
16	2840	BEIJ	3 S	0326.0	0331.5	10.0	49.0	25.9	
24	2840	BEIJ	1 S	0733.0	0734.4	3.0	3.1	1.6	
26	2840	BEIJ	1 S	0350.0	0354.0	9.0	6.1	3.4	
26	2840	BEIJ	1 S	0541.0	0542.3	4.0	8.6	4.8	
31	2840	BEIJ	5 S	0352.0	0355.1	5.0	11.0	5.2	
31	2840	BEIJ	4 S/F	0504.0	0511.6	42.0	20.4	9.7	

INTERVALS OF SOLAR RADIO EMISSION PATROL OBSERVATION

FEBRUARY 1992

Day	BEIJ	PURP	URUM	YUNN
	From To	From To	From To	From To
	2840	2700	9375	2840

1	0101 0454	0245 0820	0026 1005
2	0030 0550	0220 0905	0030 0930
3	0035 0731	0230 0800	0047 0701
4	0030 0745	0300 0723	0200 0700
5	0029 0745	0300 0400	0130 0600
6	0029 0746	0220 1005	0120 0600
7	0215 0740	0225 0700	0110 0230
8	0025 0745	0230 0807	0115 0250
9	0034 0741	0210 0930	0000 1018
10	0041 0741	0203 1009	0030 1012
11	0049 0742	0215 1000	0038 1029
12	0035 0741	0210 1000	0030 1031
13	0036 0741	0210 0950	0030 1030
14	0037 0735	0200 0945	0020 0955
15	0040 0902 2354 2400	0225 0330	0030 1002
16	0000 0722	0225 0300	0157 1030
17	0033 0745	0210 0625	0120 0820
18	0036 0746	0205 1030	0120 0830
19	0035 0745	0215 0345	0020 1028
20	0036 0736	0200 0450	0015 0900

INTERVALS OF SOLAR RADIO EMISSION PATROL OBSERVATION

FEBRUARY 1992

Day	BEIJ		PURP		URUM		YUNN	
	From	To	From	To	From	To	From	To
	2840		2700		9375		2840	
21	0033	0735			0215	0930	0010	0915
22	0040	0720			0221	0906	0015	0815
23	0018	0745			0225	0950	0115	0307
24	0039	0745			0210	1030	0050	0900
25	0040	0745			0210	0945	0030	0910
26	0039	0745			0220	1008	0100	0900
27	0034	0745			0210	1105	0015	0910
28	0036	0745			0225	1000	0010	1009
29	0042	0827			0205	0935	0040	1010

INTERVALS OF SOLAR RADIO EMISSION PATROL OBSERVATION

MARCH 1992

Day	BEIJ		PURP		URUM		YUNN	
	From	To	From	To	From	To	From	To
	2840		2700		9375		2840	
1	0036	0747			0400	0720	0108	1030
2	0037	0746			0225	1030	0038	0900
3	0035	0745			0220	1020	0010	0850
4	0040	0745			0210	0930	0015	0900
5	0045	0753			0315	0900	0020	0910
6	0038	0744					0015	0900
7	0008	0900					0030	0930
8	0033	0902					0044	0730
	2341	2400						
9	0000	0741			0225	0920	0105	0900
10	0040	0745					0100	0900
11	0041	0909			0330	0710	0100	0900
12	0016	0744			0500	1000	0015	0910
13	0040	0909			0235	0420	0015	0905
14	0043	0933			0220	0900	0115	0853
15	0016	0740			0220	0950	0050	0350
16	0103	0743			0215	0945	0030	1008
17	0043	0745			0200	0950	0130	1005
18	0049	0740			0210	0530	0038	1030
19	0009	0745			0215	0950		
20	0047	0906			0230	1020	0045	0930

INTERVALS OF SOLAR RADIO EMISSION PATROL OBSERVATION

MARCH 1992

Day	BEIJ	PURP	URUM	YUNN
	From To	From To	From To	From To
	2840	2700	9375	2840

21	0044 0741	0215 1020	0200 0800
22	0030 0734	0240 0300	0110 0900
23	0040 0746	0210 1030	0030 0800
24	0045 0745	0225 1040	0100 0900
25	0042 0747	0154 1040	0030 0910
26	0051 0924	0200 1030	0100 1030
27	0310 0430	0215 1035	0030 0925
28	0044 0718	0220 0946	0130 0840
29	0032 0730	0210 1020	0130 0600
30	0042 0745	0210 1000	0030 0910
31	0048 0748	0210 1010	0030 0900

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

FEB 1992 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	M	
1	415	413	423	412	415	404	394	405	400	405	409	401	395	397	397	408	408	404	404	411	408	416	421	404	406	9	
2	418	408	412	406	401	409	405	406	408	405	407	386	390	403	400	394	389	404	405	413	407	423	432	406	404	24	
3	420	430	433	442	437	436	428	426	437	413	415	410	410	412	403	394	393	404	405	407	413	423	427	432	404	24	
4	438	443	441	439	428	430	422	419	429	421	432	430	436	433	428	423	428	434	431	415	410	422	423	437	428	24	
5	428	430	437	425	428	430	422	419	429	421	432	430	436	433	428	423	428	434	431	415	410	422	423	437	428	24	
6	437	429	453	441	431	411	418	422	418	424	427	430	436	433	436	432	432	440	443	431	436	435	437	428	427	24	
7	439	444	453	444	446	433	428	441	430	430	428	437	435	433	425	442	451	417	436	418	395	393	394	386	426	24	
8	430	443	441	438	432	426	428	441	430	430	428	437	435	433	425	442	451	417	436	418	395	393	394	386	426	24	
9	402	405	409	400	396	398	400	406	411	408	412	414	415	407	391	404	406	407	404	404	413	410	418	420	401	24	
10	411	404	404	396	408	408	402	399	391	401	392	394	394	400	404	392	400	405	409	405	405	409	403	409	401	24	
11	406	406	401	396	393	389	392	389	393	389	392	392	398	396	403	405	410	414	414	407	414	414	419	417	401	24	
12	419	424	424	424	414	425	409	418	411	416	412	414	420	410	403	405	410	414	414	407	414	434	427	424	420	24	
13	422	423	427	423	423	415	420	410	413	415	416	414	426	413	414	419	427	420	424	426	424	424	424	424	420	24	
14	434	424	428	431	420	416	416	410	410	407	411	404	409	406	418	413	404	414	413	412	413	402	414	415	414	24	
15	414	418	420	423	426	415	420	410	413	415	416	414	426	413	414	419	427	420	424	426	424	424	424	424	420	24	
16	417	426	427	426	435	424	420	414	414	420	420	420	423	425	416	424	421	424	424	424	412	424	424	424	424	24	
17	424	422	423	422	423	417	414	409	414	424	424	426	434	424	425	424	417	419	419	420	419	425	425	424	421	24	
18	423	431	421	418	417	416	420	408	421	416	416	415	418	423	423	422	419	426	426	425	419	424	424	424	419	24	
19	426	423	423	423	421	413	413	408	409	410	412	412	420	421	412	426	423	424	424	424	424	424	424	424	424	405	24
20	427	426	426	426	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	24	
21	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	24	
22	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	24	
23	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	24	
24	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	24	
25	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	24	
26	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	24	
27	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	24	
28	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	24	
29	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	24	

MONTHLY MEAN DAILY VARIATION FOR 29 COMPLETE DAYS DEVIATIONS FROM AVERAGE:414.717
(1-12) 3.80 5.01 4.70 4.08 2.04 -0.41 -3.41 -5.10 -5.48 -4.03 -2.44 -2.58
(13-24) -3.96 -2.92 -2.17 -1.51 -1.54 -0.51 0.11 0.49 1.83 5.80 4.21 3.97
HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-HR.)
U.T.=(1) 4.39 -0.65 4.44 23.44 (2) 1.02 0.90 1.36 1.37 (3) -0.78 0.18 0.80 3.71 (4) 0.91 0.01 0.91 0.01
L.T.=(1) -1.64 4.13 4.44 7.44 (2) 0.27 -1.34 1.36 9.37 (3) -0.78 0.18 0.80 3.71 (4) 0.91 0.01 0.91 0.01

MONTHLY MEAN=414.717

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

MAR 1992

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
1	401	412	409	423	429	429	418	419	415	403	404	398	394	385	387	387	388	388	393	388	395	403	404	401	398
2	410	410	405	410	405	400	410	414	410	405	407	407	407	400	404	405	402	402	393	384	385	390	400	398	403
3	401	393	407	418	420	421	418	408	405	398	392	384	389	386	383	383	393	390	393	396	396	404	409	394	398
4	410	423	429	423	429	419	417	410	419	414	421	414	408	404	403	397	397	397	399	393	396	404	408	405	394
5	415	408	404	414	414	411	413	406	406	414	406	404	406	404	410	423	416	420	409	395	397	414	414	408	405
6	416	423	428	417	421	421	425	421	418	414	417	418	413	409	404	404	407	412	412	416	416	414	410	412	407
7	433	421	423	429	429	419	417	410	419	414	421	414	408	404	416	414	416	415	412	412	413	413	419	415	417
8	402	410	410	409	408	408	408	402	405	406	397	403	403	405	416	414	416	409	398	395	409	405	414	410	412
9	409	406	406	414	411	405	400	403	401	398	397	408	405	396	401	405	403	406	397	397	407	416	400	410	404
10	400	417	414	410	410	405	394	400	397	398	397	398	396	396	401	402	402	405	404	404	408	408	409	402	403
11	402	410	406	410	412	405	406	397	411	406	404	406	406	404	408	406	406	404	404	404	407	407	407	410	404
12	410	402	396	407	408	405	399	398	400	395	400	398	398	403	398	397	397	392	396	393	396	402	409	398	402
13	408	410	408	414	404	415	404	401	396	396	403	403	398	408	408	404	407	404	392	407	415	420	404	407	407
14	416	412	415	412	415	408	405	394	399	396	409	412	402	411	426	421	415	432	418	426	431	428	427	430	408
15	426	426	417	421	424	418	410	407	417	409	412	412	420	402	411	426	421	432	418	426	431	439	423	419	419
16	425	415	423	417	416	423	421	419	420	428	425	430	434	431	429	435	445	442	438	435	442	429	416	414	423
17	454	462	465	451	456	460	453	454	455	446	444	445	444	441	455	458	468	461	462	462	462	457	461	464	464
18	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
19	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
20	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
21	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
22	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
23	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464
24	457	458	459	459	458	456	453	453	453	448	446	445	444	441	455	458	468	461	462	464	460	466	464	464	464

MONTHLY MEAN=425.099

MONTHLY MEAN DAILY VARIATION FOR 31 COMPLETE DAYS DEVIATIONS FROM AVERAGE:425.099

(1-12) 2.16 3.48 2.80 3.74 2.32 2.19 0.84 -1.52 -3.07 -4.42 -4.55 -6.65
 (13-24) -5.81 -4.39 -3.62 -4.36 -0.84 -0.91 -0.52 1.93 4.29 7.16 5.16 4.58
 HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-MIN.)

U.T.=(1) 5.14 0.04 5.14 0.03 (2 -0.69 -0.47 0.84 7.15) (3 -0.29 -0.95 1.00 5.62) (4 -0.48 -0.39 0.62 3.65)
 L.T.=(1) -2.60 4.43 5.14 8.03 (2 -0.06 0.83 0.84 3.15) (3 -0.29 -0.95 1.00 5.62) (4 0.58 -0.22 0.62 5.65)

COSMIC RAY MESON INTENSITY VERTICAL COMPONENT

Real Counts: 128 Times (Tabulated Counts Plus 3000)

FEB 1992

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
1	-9	-13	-9	-6	-4	-7	-3	-16	-20	-6	-25	-27	-32	-26	-34	-36	-44	-36	-28	-28	-10	-25	-23	-4	-19.6
2	-17	-14	-11	-4	-21	-11	-26	-14	-19	-12	-26	-34	-37	-35	-36	-36	-41	-42	-44	-30	-27	-17	11	-10	-23.0
3	9	-3	-14	-12	4	-4	-16	-14	-9	-22	-27	-26	-46	-16	-44	-41	-39	-32	-39	-41	-33	-35	-37	-24	-23.5
4	-8	11	-15	-9	-4	-23	-21	-24	-17	-21	-40	-28	-34	-25	-33	-35	-29	-17	-21	-22	-18	-12	-22	-20.9	24
5	-10	-8	6	5	4	-13	0	-25	-30	-24	-22	-32	-19	-39	-29	-22	-27	-12	-18	-9	-11	-10	-2	4	-14.3
6	-19	7	2	15	19	7	-2	-3	-4	-8	0	-8	15	-26	-4	-16	-14	-1	1	3	13	14	14	-25	8
7	-4	2	3	7	18	25	20	15	4	-7	-8	1	-14	22	5	17	1	3	13	13	14	-25	-7	-18	4.2
8	8	16	11	15	14	-5	4	-3	14	0	-1	-3	-3	6	7	7	5	5	-11	-29	-39	-47	-64	-61	-6.4
9	-45	-30	-29	-25	-14	-27	-5	-14	-16	-15	-22	-29	-48	-39	-52	-42	-20	-27	-32	-24	-15	-8	-15	-16	-25.4
10	-16	-14	-9	-9	-20	-26	-26	-16	-11	-25	-16	-24	-45	-36	-44	-34	-29	-22	-21	-22	-19	-29	-20	-32	-23.5
11	-43	-29	-10	-11	13	0	5				4	-8	-5	1	5	1	8	-3	9	12	5	26	5	11	-0.2
12	19	-5	12	1	23	29	6	0	3	2	7	-4	-3	-4	-3	8	16	-7	8	26	25	20	-4	21	8.2
13	20	-3	1	14	24	22	12	-5	-13	11	3	5	9	18	11	7	8	12	-10	9	12	17	18	12	8.9
14	2	8	5	16	35	31	31	11	4	-3	6	8	16	1	2	5	23	-1	11	20	13	11	18	28	12.5
15	3	14	20	15	30	26	38	0	11	31	6	18	9	25	21	11	12	23	11	18	24	26	26	24	18.4
16	18	33	42	43	45	30	39	27	33	29	13	17	31	21	20	24	16	12	15	13	17	10	5	10	23.5
17	12	11	18	25	26	32	27	16	5	16	24	6	4	12	5	7	0	14	12	16	13	3	2	6	13.0
18	-6	-10	-2	-3	19	12	28	25	2	15	13	11	-1	21	15	5	7	3	12	10	4	-5	5	16	8.2
19	16	-1	21	13	24	18	26	16	26	19	24	21	15	14	17	19	11	14	22	14	12	15	22	41	18.3
20	42	42	41	40	38	45	26	3	14	4	26	21	19	12	26	19	13	15	13	22	15	35	39	40	25.4
21	44	43	28	16	14	-13	-8	1	-7	-14	3	5	1	-12	-10	-25	0	-7	-16	-9	-1	8	-5	-3	1.4
22	31	5	22	22	21	20	23	32	24	26	20	14	25	6	10	7	2	-10	12	13	18	16	17	17	16.4
23	14	25	8	22	34	34	38	34	33	62	34	35	17	17	21	20	13	17	32	25	28	38	27	21	26.6
24	30	30	40	37	37	43	39	39	44	25	36	34	25	27	26	16	17	10	7	19	1	13	20	28	26.8
25	27	19	44	44	21	33	35	12	23	27	23	25	9	25	18	14	16	11	23	33	15	34	18	18	23.6
26	19	19	22	34	22	23	18	26	21	29	13	13	14	4	-2	-7	-8	-9	-2	-2	-14	-18	-26	-11	-26
27	-18	-27	-13	-27	-21	-33	-35	-48	-55	-25	-44	-69	-68	-72	-50	-53	-49	-66	-68	-45	-44	-49	-45	-45	-44.1
28	-34	-53	-39	-35	-26	-26	-5	-33	-28	-40	-35	-44	-51	-43	-28	-38	-19	-36	-36	-40	-23	-27	-23	-24	-32.8
29	-8	-3	-15	1	-6	10	5	11	-3	-12	-36	-28	-36	-45	-55	-21	-44	-31	-31	-13	-2	-12	-1	-4	-15.8

MONTHLY MEAN = -0.325

MONTHLY MEAN DAILY VARIATION FOR 28 COMPLETE DAYS DEVIATIONS FROM AVERAGE: -0.329

(1-12) 4.61 3.94 7.11 9.44 13.04 9.33 9.90 2.22 1.36 2.19 -1.49 -3.74
(13-24) -7.61 -6.35 -7.53 -7.53 -7.14 -7.85 -6.14 -2.46 -1.67 -2.67 -0.85 0.08

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

U.T. = (1 4.04 7.37 8.41 4.08) (2 -1.64 0.50 1.72 5.43) (3 -1.01 -0.19 1.03 4.24) (4 -0.17 -0.49 0.52 4.19)
L.T. = (1 -8.41 -0.18 8.41 12.08) (2 1.26 1.17 1.72 1.43) (3 -1.01 -0.19 1.03 4.24) (4 0.51 0.10 0.52 0.19)

COSMIC RAY MESON INTENSITY
VERTICAL COMPONENT
Real Counts: 128 Times (Tabulated Counts Plus 3000)

MAR 1992

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	-10	-8	-15	-5	-14	7	-1	7	1	2	-8	-28	-39	-34	-44	-38	-41	-31	-34	-40	-30	-22	-14	-10	-18.7	24
2	19	29	44	42	47	56	39	23	-4	10	7	4	-5	-12	-1	-14	-13	3	3	18	9	33	12	14.0	24	
3	11	30	31	52	64	41	53	49	22	13	14	6	-6	-2	7	4	7	1	11	12	16	20	19	20.3	24	
4	8	40	30	27	41	41	22	17	28	22	36	16	35	26	12	26	24	7	1	42	35	39	47	28.9	24	
5	36	54	24	54	58	64	58	42	44	56	52	35	43	61	41	43	47	60	65	54	57	60	49.5	24		
6	54	54	61	63	65	81	73	64	64	75	65	62	53	50	48	56	57	60	66	66	47	59	52	60.8	24	
7	72	59	71	82	76	71	73	75	64	75	73	73	73	73	61	57	63	43	57	56	59	52	54	62.6	24	
8	59	69	59	66	62	63	80	74	61	76	52	52	50	39	40	47	44	38	49	45	51	38	53.8	24		
9	44	48	56	62	78	63	55	58	36	47	45	43	36	30	30	35	40	42	23	37	23	40	45.3	24		
10	50	50	52	50	50	65	66	55	40	29	36	39	33	33	38	31	31	46	45	51	38	54	43.7	24		
11	46	45	49	50	39	57	47	56	48	50	50	39	37	36	33	33	31	31	49	49	30	35	44.4	24		
12	59	43	41	47	46	29	43	43	46	45	45	45	38	34	38	45	52	42	46	45	51	41	44.1	24		
13	41	37	48	52	58	61	47	43	38	32	20	28	32	44	48	26	34	48	42	40	54	41.5	24			
14	54	66	59	52	60	42	31	41	45	26	26	26	26	37	30	33	29	28	35	37	51	47	41.8	24		
15	54	52	62	62	49	38	30	32	34	34	32	20	25	25	27	34	34	30	30	41	41	34	37.6	24		
16	38	42	35	36	49	40	39	41	42	40	16	8	18	29	34	25	39	29	25	39	43	37.7	24			
17	53	39	46	61	58	54	35	46	35	47	25	16	16	30	29	31	31	18	29	39	37.7	24				
18	33	32	47	50	42	45	43	32	26	19	28	13	22	22	34	36	51	57	47	48	53	53.2	24			
19	45	54	45	46	54	39	43	43	32	29	37	33	33	34	31	36	26	43	50	57	51	59	42.4	24		
20	69	43	62	69	62	58	60	60	51	49	46	45	55	44	58	54	63	62	66	65	68	54	58.9	24		
21	61	70	55	61	62	64	53	57	46	46	52	51	43	43	57	54	43	45	47	48	53	56	53.2	24		
22	65	78	63	66	63	69	53	57	46	46	52	51	43	43	57	54	43	45	47	48	53	56	53.2	24		
23	60	61	68	58	58	59	67	61	52	54	37	48	44	53	45	51	47	56	62	57	38	54	54.2	24		
24	48	58	58	52	60	54	67	56	50	45	46	46	50	56	53	50	51	56	60	57	59	52	53.2	24		
25	58	61	50	64	77	65	63	61	60	57	72	53	46	45	51	61	55	58	62	60	75	62.5	24			
26	61	62	64	64	77	65	63	61	60	57	40	45	45	38	49	49	48	48	43	60	75	62.5	24			
27	57	57	76	64	75	64	81	71	61	67	61	64	60	73	50	74	62	66	74	81	71	68.3	24			
28	75	74	87	75	84	92	92	95	85	80	81	75	80	84	76	72	75	87	91	91	107	86	84.4	24		
29	95	91	91	88	96	85	85	87	87	84	84	85	84	84	96	88	96	96	89	89	100	96	89.5	24		
30	93	94	94	83	94	83	97	94	94	90	80	79	87	87	87	82	82	78	80	81	80	70	83.4	24		
31	75	68	68	61	84	79	83	84	78	85	79	85	65	71	90	63	61	56	69	66	73	73	77	73.4	24	

MONTHLY MEAN DAILY VARIATION FOR 31 COMPLETE DAYS DEVIATIONS FROM AVERAGE: 48.567

(1-12) 2.50 3.01 6.34 8.43 9.08 10.66 8.53 5.05 1.69 0.08 -4.37 -6.47
(13-24) -6.60 -7.50 -8.02 -7.41 -6.57 -6.18 -2.92 -2.08 -0.34 -0.31 2.17 1.24

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

U.T.=(1) 4.66 6.16 7.72 3.53 (2) -2.37 -0.30 2.39 6.24 (3) -0.50 -0.85 0.98 5.33 (4) 0.02 -0.11 0.11 4.69
L.T.=(1) -7.66 0.95 7.72 11.53 (2) 0.92 2.21 2.39 2.24 (3) -0.50 -0.85 0.98 5.33 (4) 0.08 0.07 0.11 0.69

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

FEB 1992		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
1	34	34	34	34	30	31	31	30	30	29	28	28	26	22	27	27	28	26	29	29	29	28	29	28	29.3
2	34	32	30	27	26	27	26	26	24	23	23	26	25	27	27	28	28	28	28	31	31	31	33	35	28.3
3	34	32	36	35	35	34	34	30	31	33	33	33	35	32	32	31	34	34	34	31	31	32	33	35	28.3
4	35	35	36	37	37	37	37	35	34	34	37	37	35	32	33	35	37	38	38	36	37	38	38	36	29.7
5	35	39	39	37	38	35	35	35	34	34	37	37	35	32	33	35	37	38	38	38	37	39	39	38	29.7
6	41	43	45	45	45	37	37	35	35	35	36	37	36	39	39	42	42	40	40	37	37	39	39	41	33
7	41	43	43	43	43	43	43	41	38	34	34	33	35	35	36	34	34	34	34	32	29	26	23	24	34.4
8	39	42	42	39	39	27	27	26	26	25	27	27	26	26	26	27	27	28	28	30	31	31	33	33	28.1
9	27	29	29	28	32	33	33	30	30	29	29	30	29	29	30	30	30	30	30	27	29	30	30	30	30.0
10	33	34	34	31	31	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	29.8
11	32	32	33	32	31	30	29	26	25	24	24	26	26	27	30	30	30	31	34	34	32	32	34	34	34.5
12	37	40	38	40	40	37	37	35	35	34	32	32	31	31	32	32	34	34	34	29	27	32	32	34	33.1
13	34	37	37	37	35	35	33	33	33	34	31	31	31	32	32	32	35	35	35	30	30	32	32	32	33.1
14	34	33	33	37	37	37	37	36	35	35	35	34	34	34	34	33	33	33	36	37	37	32	34	34	34.4
15	33	38	38	33	40	40	38	36	35	35	35	32	32	32	33	33	35	35	36	37	37	32	34	34	33.5
16	35	38	38	36	40	40	39	38	38	33	32	32	32	32	33	30	30	31	36	37	37	32	34	34	33.5
17	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	29	29	29	29	29	30.773
18	26	25	25	26	28	28	28	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30.773
19	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30.773
20	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
21	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
22	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
23	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
24	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
29	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

MONTHLY MEAN DAILY VARIATION FOR 29 COMPLETE DAYS DEVIATIONS FROM AVERAGE: 30.773
(1-12) 1.99 3.09 2.92 2.61 1.33 1.36 0.64 -0.12 -1.19 -1.70 -1.50 -1.05
(13-24) -1.15 -0.67 -1.46 -1.77 -1.05 0.23 0.33 -0.39 -0.43 -1.12 -1.01 0.23
HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-HR.)
U.T.=(1) 1.36 0.87 1.61 2.18 (2) -0.20 0.93 0.95 3.41 (3) -0.27 0.53 0.60 2.60 (4) 0.33 0.46 0.57 0.90
L.T.=(1) -1.43 0.74 1.61 10.18 (2) 0.91 -0.29 0.95 11.41 (3) -0.27 0.53 0.60 2.60 (4) -0.56 0.06 0.57 2.90

COSMIC RAY MESON INTENSITY

Real Relative Intensity: 0.1% Times (Tabulated Value Plus 1000)

MAR. 1992

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	σ
1	27	31	28	29	29	29	28	28	26	24	25	25	25	25	25	25	26	25	26	25	29	28	28	29	26.9	24.4
2	30	33	30	32	29	29	28	29	25	26	24	22	24	23	25	27	27	26	24	27	27	28	29	29	27.2	24.4
3	29	33	35	36	32	33	32	33	32	30	29	30	28	28	26	29	29	29	28	28	28	29	30	28	30.2	24.4
4	32	33	29	29	27	26	27	29	26	25	25	27	28	27	29	30	31	31	32	32	32	31	32	33	29.3	24.4
5	35	35	37	36	37	35	35	34	32	31	31	33	34	34	32	32	32	35	32	34	34	34	34	34	33.8	24.4
6	34	34	35	34	33	30	31	29	29	27	27	29	27	28	29	29	28	30	29	29	27	28	26	28	29.7	24.4
7	31	31	31	28	28	28	30	27	27	28	29	27	28	28	30	27	27	28	30	28	27	28	28	29	28.5	24.4
8	29	28	28	28	28	26	27	29	26	20	21	24	25	24	24	26	23	24	25	25	26	26	27	29	25.8	24.4
9	30	30	30	30	29	29	30	32	30	29	28	27	29	30	26	29	26	29	28	27	27	27	26	28	28.6	24.4
10	27	26	29	27	26	27	26	24	25	25	24	25	26	25	24	23	24	23	24	24	25	26	25	25	25.3	24.4
11	28	30	27	31	28	28	28	26	25	25	27	28	18	22	22	21	23	24	24	23	26	24	26	25	25.4	24.4
12	26	22	23	20	22	24	23	24	21	20	18	19	21	23	22	20	22	21	23	22	23	20	22	21	21.8	24.4
13	23	26	26	24	25	24	24	21	22	21	20	23	22	22	26	26	25	26	27	24	23	21	25	25	24.0	24.4
14	28	28	29	25	27	28	26	20	17	17	16	18	18	19	19	21	25	26	30	25	30	28	30	30	24.2	24.4
15	31	37	32	32	31	30	26	24	22	24	26	25	26	26	26	30	29	32	33	34	33	34	33	34	29.6	24.4
16	34	32	34	34	35	34	31	32	32	30	33	34	34	32	35	34	35	34	32	31	30	30	30	31	32.6	24.4
17	32	32	31	32	33	33	32	30	30	30	27	31	28	28	28	27	27	25	28	28	30	31	33	29.6	24.4	
18	29	32	32	29	30	28	26	26	24	25	22	23	25	30	26	28	32	31	31	33	33	35	34	28.8	24.4	
19	39	38	38	38	36	35	35	34	32	32	31	32	35	32	35	33	31	34	35	35	37	37	36	35	34.8	24.4
20	37	39	40	39	37	38	36	36	37	35	35	34	35	33	34	35	34	39	39	39	39	40	40	37.0	24.4	
21	38	40	37	38	35	36	34	32	32	32	32	33	32	33	33	31	33	36	38	36	37	36	34	34.7	24.4	
22	37	37	34	34	33	30	29	30	30	26	28	28	30	26	29	26	29	34	34	30	29	31	30	31	30.6	24.4
23	33	32	33	31	33	33	34	31	30	29	30	31	27	32	33	33	30	32	29	30	32	31	30	30	31.2	24.4
24	30	31	29	31	29	41	31	26	30	29	26	29	28	27	28	30	31	34	33	30	29	29	29	30	30.0	24.4
25	29	31	33	32	32	32	34	30	27	28	26	27	28	28	26	27	24	27	28	30	30	31	30	29.5	24.4	
26	33	31	32	32	32	32	34	30	27	28	26	27	28	28	26	24	24	26	29	29	30	32	30	30	29.2	24.4
27	33	32	32	31	32	30	30	28	22	25	23	24	26	25	23	23	21	22	23	24	26	28	29	32	26.8	24.4
28	32	34	34	35	31	31	30	26	30	27	27	27	27	30	34	32	30	30	30	32	32	34	33	31	31.0	24.4
29	33	30	33	28	31	28	28	30	26	28	25	30	26	27	27	29	28	28	28	29	31	29	30	27	28.7	24.4
30	28	26	28	27	24	27	26	27	26	28	28	29	26	26	26	26	25	28	25	28	27	23	24	31	26.7	24.4
31	27	26	28	27	26	30	27	23	23	26	22	23	21	22	21	22	29	26	25	27	25	27	29	27	25.4	24.4

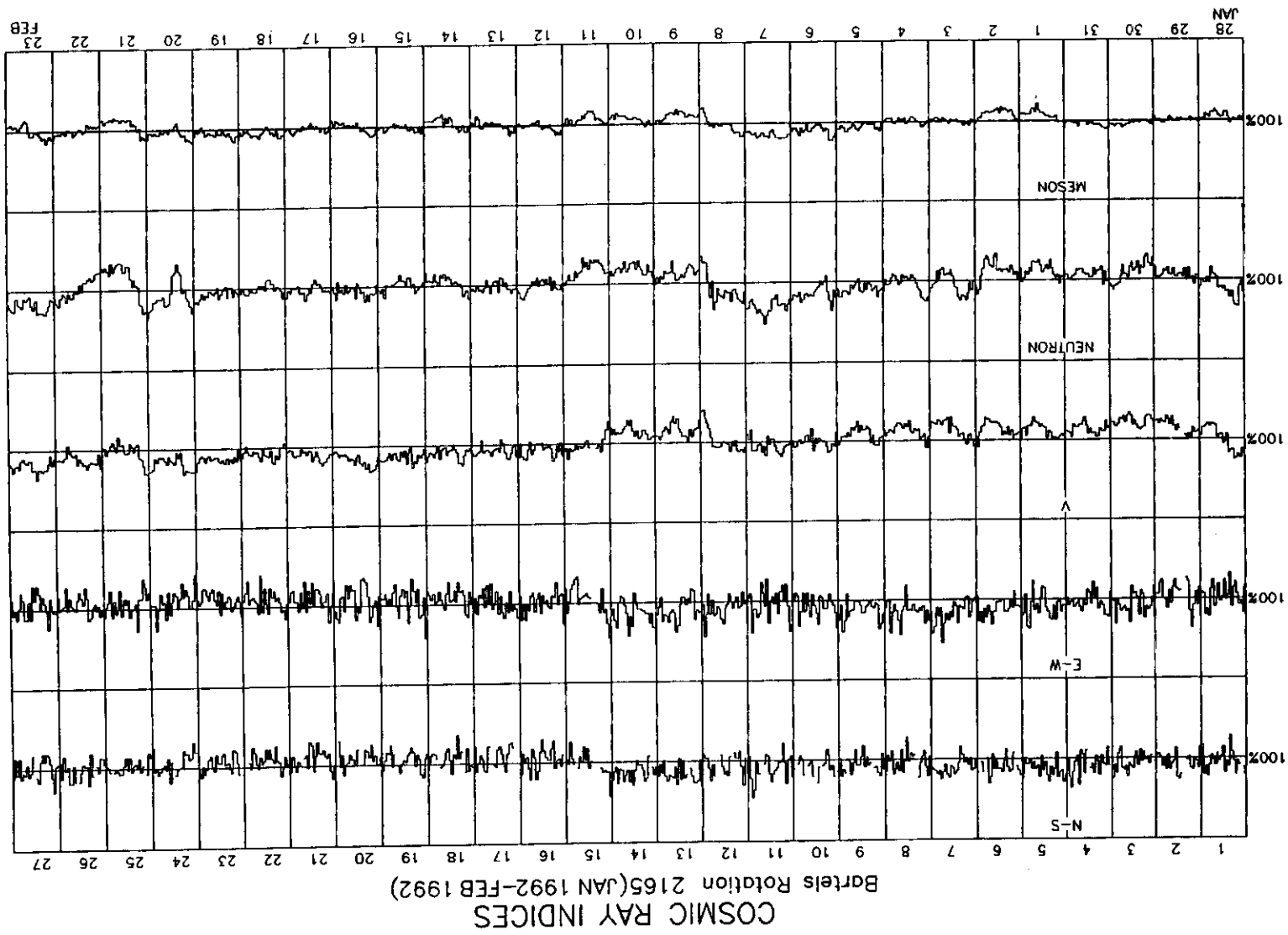
MONTHLY MEAN= 28.922

MONTHLY MEAN DAILY VARIATION FOR 31 COMPLETE DAYS DEVIATIONS FROM AVERAGE: 28.922

(1-12) 2.17 2.69 2.59 2.01 1.40 1.53 0.63 -0.60 -1.53 -2.08 -2.60 -1.86
 (13-24) -1.76 -1.57 -1.53 -1.41 -1.28 -0.02 0.24 0.01 0.53 0.47 0.82 1.14

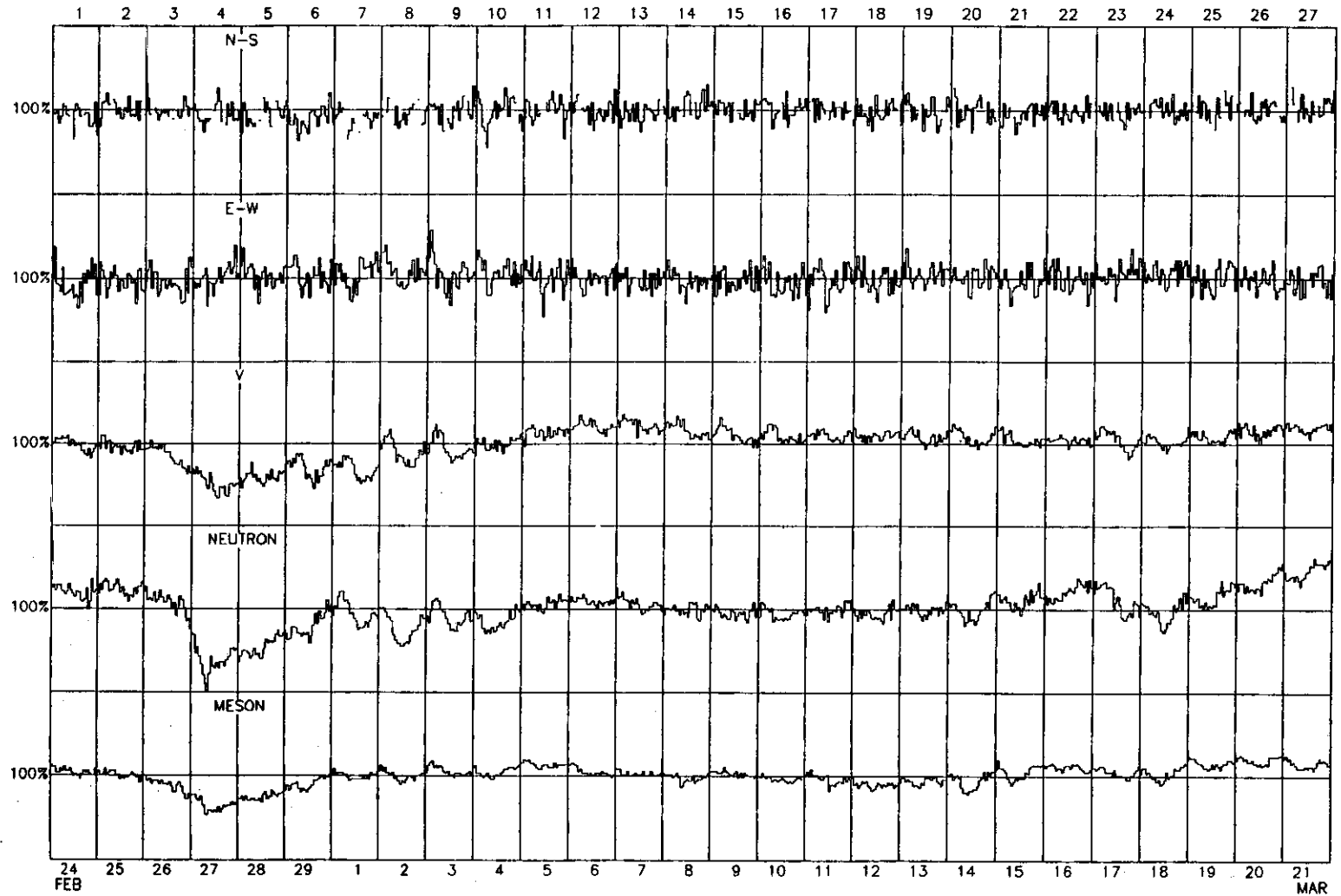
HARMONIC COMPONENTS (ORDER, COS, SIN, AMPLITUDE, MAX.-NR)

U.T.=(1 2.00 0.53 2.07 0.98) (2 -0.23 0.60 0.64 3.70) (3 -0.15 0.04 0.15 3.63) (4 0.22 0.25 0.33 0.81)
 L.T.=(1 -1.46 1.47 2.07 8.98) (2 0.63 -0.10 0.64 11.70) (3 -0.15 0.04 0.15 3.63) (4 -0.32 0.07 0.33 2.81)



COSMIC RAY INDICES

Bartels Rotation 2166(FEB 1992-MAR 1992)



SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

FEBRUARY 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
01	LINT	0012	0027	0042D	3+	- 8.9	0	- 8.0,+ 3.5
01	LINT	0118	0122	0134	1-	- 0.8	- 3	0
01	LINT	0622	0631	0640	1-	- 0.7		- 1.3
01	LINT	0831	0851	0920	2+	- 5.7		- 1.7,+ 3.4
01	YUNN	0900	0909	1014	3+	-11.1		
02	LINT	0118	0134	0150	1+	- 2.9	-13	0
02	LINT	0216	0226	0304	1+	- 2.3	-11	- 1.1
02	LINT	0312	0319	0342	1-	- 0.9	- 5	0
02	LINT	0508	0516	0530	1-	- 0.4	- 2	0
02	LINT	0616	0620	0642	1	- 1.1	- 5	- 0.4
02	LINT	0720	0732	0810	1	- 1.9	-10	+ 1.2
03	YUNN	0043	0053	0153	3+	-13.8		
03	LINT	0044	0057	0213D	3+	-12.4	-14	- 6.8,+12.0
03	LINT	0213	0227	0253	1	- 1.6	-10	+ 3.1
03	YUNN	0215	0220	0255	2-	- 3.5		
03	LINT	0254	0304	0324	1-	- 0.3	- 4	+ 0.5
03	LINT	0334	0341	0401U	1	- 1.1	- 6	- 0.2
03	LINT	0401	0405	0420	1-	- 0.4	- 3	0
03	LINT	0607	0612	0630	1	- 1.2	-12	0
03	YUNN	0609	0616	0635	1	- 1.4		
03	LINT	0657	0703	0744	1+	- 2.5	-22	0
03	YUNN	0700	0703	0738	1	- 1.6		
03	YUNN	0804	0807	0826	1+	- 2.3		
04	LINT	0049	0055	0108	2	- 4.4	- 3	+ 2.3
04	LINT	0238	0242	0300	1-	- 0.6	- 3	0
04	LINT	0312	0318	0327D	1+	- 2.2	- 9	- 2.3
04	LINT	0327	0330	0341	1-	- 0.5	- 4	- 0.9
04	LINT	0356	0407	0454	2+	- 6.0	-32	- 4.8,+ 1.8
04	LINT	0544	0548	0604	1-	- 0.4	0	- 0.7
05	LINT	0032	0047	0052U	3-	- 6.6	0	- 3.7,+ 1.8
05	LINT	0110	0120	0132	1-	- 0.3	0	+ 0.9
05	LINT	0258	0304	0320U	1-	- 0.7	- 5	- 0.4
05	LINT	0519	0533	0622	1+	- 2.2	-11	- 0.8
05	YUNN	0524	0529	0614	1	- 1.8		
05	LINT	0634	0648	0734	2-	- 3.5	-23	+ 0.8
05	YUNN	0637	0646	0716	1+	- 2.6		
06	LINT	0016	0024	0120	3+	-11.7	- 2	- 9.8,+ 9.2
06	YUNN	0029	0041	0114	3+	-17.3		
06	LINT	0223	0232	0313D	1-	- 0.5	- 3	0
06	YUNN	0311	0326	0411	3+	-10.2		

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

FEBRUARY 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
06	LINT	0313	0331	0422	3+	-10.9	-69	- 3.2,+ 4.8
06	LINT	0542	0548	0610	1-	- 0.7	- 5	- 0.8
07	YUNN	0342	0346	0416	1+	- 2.5		
07	LINT	0342	0349	0413	1	- 1.8	- 9	- 1.8
08	LINT	0112	0120	0140U	1	- 1.3	0	- 0.6
08	LINT	0320	0324	0429	2+	- 5.6	-11	- 3.1
08	YUNN	0320	0323	0358	2-	- 3.7		
08	YUNN	1021	1026	1100	3+	-12.2		
09	LINT	0259	0307	0438	2+	- 5.4	-24	- 2.6,+ 1.1
09	YUNN	0300	0305	0405	2+	- 5.6		
09	LINT	0540	0547	0639	2-	- 3.8	-26	- 1.0,+ 1.0
09	YUNN	0540	0545	0645	2-	- 3.2		
10	LINT	0251	0300	0320	1-	- 0.8		0
10	LINT	0340	0350	0431D	1+	- 2.2		- 1.1,+ 0.5
10	YUNN	0340	0345	0420	1+	- 3.0		
10	LINT	0431	0436	0458D	1-	- 1.0		+ 1.0
10	YUNN	0431	0433	0458	1	- 1.2		
10	LINT	0458	0506	0522	1-	- 0.5		+ 0.9
11	LINT	0049	0053	0102	1+	- 2.1		- 5.1
11	YUNN	0203	0210	0245	2-	- 3.6		
11	LINT	0205	0213	0250	1+	- 2.2		- 0.5
11	YUNN	0338	0345	0415	1+	- 3.0		
11	LINT	0338	0347	0422D	1+	- 2.2		- 2.2
11	YUNN	0422	0425	0515	2-	- 3.9		
11	LINT	0422	0427	0530	2	- 4.1		- 1.7,+ 2.4
11	YUNN	0605	0609	0639	1	- 1.2		
11	YUNN	0952	0955	0959	2-	- 3.6		
12	LINT	0016	0020	0028	1-	- 0.9		- 1.9
12	LINT	0339	0342	0402	1-	- 0.6		- 0.7
13	LINT	0729	0739	0758U	2	- 4.5		+ 1.6
14	LINT	0100	0109	0124U	1	- 1.1	0	- 1.3
14	LINT	0223	0231	0238U	1-	- 0.3	- 2	- 0.6
14	LINT	0921	0926	0944	1+	- 2.4	-11	- 3.4
15	LINT	0054	0056	0103	1-	- 0.6	- 2	- 0.5
15	LINT	0122	0126	0132U	1-	- 0.9	0	- 1.2
15	YUNN	0146	0200	0220	2	- 4.1		
15	LINT	0148	0202	0225	1	- 1.5	-10	- 1.9
15	YUNN	0224	0228	0248	1+	- 2.5		
15	LINT	0225	0230	0246	1	- 1.8	- 6	- 2.7
15	YUNN	0454	0459	0513	1+	- 2.7		

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

FEBRUARY 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
15	LINT	0454	0459	0525D	2-	- 3.6	-15	- 2.6
15	YUNN	0513	0517	0532	1+	- 2.4		
15	LINT	0515	0521	0600	2	- 4.1	-25	+ 3.2
15	LINT	0713	0719	0724D	2-	- 3.2	-10	
15	LINT	0724	0730	0752	2	- 4.7	-14	
15	LINT	0836	0840	0902	3-	- 6.2	-24	- 1.4
16	LINT	0214	0226	0300U	1-	- 1.0	-57	- 0.7
16	LINT	0321	0338	0513	2-	- 3.2	-17	- 4.7
16	YUNN	0321	0348	0425	3-	- 6.9		
16	LINT	0343	0355	0448	2	- 4.1	-20	+ 1.8
17	LINT	0055	0116	0121D	3-	- 6.2	-23	+ 8.5
17	YUNN	0100	0115	0123	3+	-11.1		
17	LINT	0121	0132	0226	2	- 4.9	-26	
17	YUNN	0123	0128	0154	2-	- 3.8		
17	LINT	0539	0547	0648	1+	- 2.9	-17	- 0.5, + 0.5
17	YUNN	0540	0544	0618	1+	- 2.4		
17	LINT	0822	0827	0834D	1	- 1.7	- 4	+ 1.9
18	LINT	0055	0103	0110D	1	- 1.1	0	- 1.9
18	YUNN	0109	0119	0139	2	- 4.9		
18	LINT	0110	0120	0142D	2	- 4.3	- 7	- 2.7, + 1.1
18	YUNN	0149	0158	0250	2	- 4.8		
18	LINT	0150	0205	0250	2-	- 3.7	-20	+ 1.7
18	YUNN	0339	0352	0422	2-	- 3.1		
18	LINT	0340	0355	0440	2-	- 3.9	-13	- 1.5
18	LINT	0454	0502	0513	1-	- 0.5	- 3	0
18	LINT	0527	0532	0540	1-	- 0.4	- 3	0
18	LINT	0612	0616	0626	1-	- 0.5	- 3	0
18	LINT	0740	0745	0800	1-	- 0.7	-11	0
18	YUNN	0742	0745	0816	1	- 1.7		
19	LINT	0048	0057	0114	2	- 4.8	- 6	- 2.2, + 1.4
19	LINT	0121	0136	0232	2-	- 3.6	-14	+ 3.4
19	LINT	0258	0320	0336D	1	- 1.2	- 7	0
19	YUNN	0336	0354	0424	2+	- 5.7		
19	LINT	0336	0347	0349D	2-	- 3.6	-20	+ 1.7
19	LINT	0349	0358	0454	2-	- 3.3	-31	+ 3.1
19	LINT	0658	0705	0724	1	- 1.4	- 7	+ 0.8
20	LINT	0235	0240	0315U	1	- 1.1	- 4	- 1.3
20	LINT	0345	0402	0454	1+	- 2.9	-11	- 1.2, + 0.7
20	LINT	0523	0528	0544	1-	- 0.6	- 2	+ 0.4
20	LINT	0551	0558	0609D	1-	- 0.8	- 3	0

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

FEBRUARY 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	LF	SPA	VLF	LF	SFA
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20	LINT	0609	0618	0644	1	-1.3	-6	-6	+0.6	+0.6
20	LINT	0848	0906	0926	2-	-3.1	-6	-6	+0.5	+0.5
21	LINT	0029	0035	0048U	1-	-0.6	0	0	-1.3	-1.3
22	LINT	0105	0117	0130U	1	-2.0	-8	-8	-5.8	-5.8
22	LINT	0202	0210	0220	1-	-0.5	-3	-3	0	0
22	LINT	0227	0230	0250	1-	-0.8	-2	-2	-1.1	-1.1
22	LINT	0329	0348	0434	1	-1.4	-5	-5	-1.4	-1.4
24	LINT	0155	0216	0316	2	-4.5	-14	-14	-3.7	-3.7
25	LINT	0424	0440	0510	1-	-0.9	-5	-5	+1.0	+1.0
25	LINT	0720	0724	0730	1-	-0.9	-4	-4	-1.3	-1.3
25	LINT	2353	2357	0014U	1	-1.5	0	0	-1.1	-1.1
26	LINT	0106	0111	0134D	1-	-0.3	-4	-4	-2.1	-2.1
26	YUNN	0133	0142	0205	3+	-8.8				
26	LINT	0134	0141	0301D	3+	-8.8	-17	-17	-6.7, +4.5	-6.7, +4.5
26	LINT	0301	0304	0315	1-	-0.2	-1	-1	+0.4	+0.4
26	LINT	0335	0345	0422	1	-1.2	-4	-4	0	0
26	LINT	0448	0454	0516	1-	-0.8	-3	-3	0	0
26	LINT	0544	0549	0604	1-	-0.4	-2	-2	0	0
27	LINT	0027	0035	0100	1+	-2.9	0	0	-6.0	-6.0
27	YUNN	0029	0034	0049	2-	-3.3				
27	LINT	0125	0158	0226U	1	-1.2	-22	-22	-2.2	-2.2
27	YUNN	0239	0245	0255	1	-1.1				
27	LINT	0302	0340	0406U	1-	-0.4	-8	-8	-0.5	-0.5
27	LINT	0423	0434	0502	1-	-0.3	-2	-2	0	0
27	YUNN	0528	0536	0601	1+	-2.7				
27	LINT	0532	0542	0626	2-	-3.3	-14	-14	-2.4, +1.3	-2.4, +1.3
27	YUNN	0950	0958	1018	3+	-14.4				
28	YUNN	0133	0140	0150	2-	-3.1				
28	LINT	0215	0242	0343	1+	-2.6	-10	-10	-1.3	-1.3
28	YUNN	0220	0227	0302	1+	-3.0				
28	YUNN	0427	0441	0516	1+	-2.3				
28	LINT	0429	0440	0532	1	-1.8	-10	-10	-0.8	-0.8
28	LINT	0714	0722	0754	1	-1.4	-5	-5	-0.9	-0.9
29	YUNN	0910	0914	0929	2	-4.3				
29	YUNN	0932	0942	1032	3+	-21.0				

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

MARCH 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
01	LINT	0400	0404	0424	1-	- 0.2	- 1	0
01	LINT	0534	0541	0614	1	- 1.8	-10	- 1.7
02	YUNN	0246	0251	0341	1+	- 2.5		
02	LINT	0246	0253	0330	1	- 1.7		- 1.7
02	YUNN	0715	0718	0750	1	- 1.7		
02	YUNN	1002	1007	1057	3+	-51.6		
03	YUNN	0057	0101	0118	1+	- 2.3		
03	YUNN	0153	0158	0222	1+	- 2.1		
03	LINT	0313	0316	0333	1-	- 0.2	- 2	0
03	YUNN	0729	0743	0808	1	- 2.0		
04	YUNN	0414	0419	0457	2-	- 3.5		
04	YUNN	0530	0535	0610	2-	- 3.9		
04	YUNN	1018	1024	1049	3+	-10.8		
05	YUNN	0141	0144	0159	1	- 1.8		
05	YUNN	0606	0611	0631	1	- 1.3		
05	YUNN	0714	0719	0749	1+	- 2.3		
05	LINT	0715	0725	0754	1	- 1.1	- 6	0
06	YUNN	0605	0607	0627	1	- 1.5		
06	YUNN	0930	0934	0949	2-	- 3.7		
06	YUNN	0952	0955	1009	2-	- 3.5		
07	YUNN	0101	0106	0131	1+	- 3.0		
07	LINT	0102	0114	0126D	1	- 1.2	- 6	- 1.3
07	LINT	0129	0139	0158	1-	- 0.4	- 6	- 0.6
07	YUNN	0131	0136	0201	1+	- 2.4		
07	LINT	0204	0213	0310	2-	- 3.5	-14	- 1.9, + 0.5
07	YUNN	0206	0209	0303	1+	- 2.8		
07	YUNN	0555	0557	0614	1	- 1.2		
07	YUNN	0626	0628	0644	1	- 1.2		
07	LINT	0834	0838	0856	1	- 1.4	- 2	- 2.8
08	LINT	0031	0112	0210	3	- 7.5	-20	- 5.0
08	YUNN	0033	0058	0131	3+	- 9.1		
08	YUNN	0138	0142	0207	1	- 1.9		
08	YUNN	0218	0220	0232	1	- 1.1		
09	LINT	0225	0243	0328	1	- 1.6	- 6	- 0.7
10	LINT	0040	0059	0210	3-	- 6.4	- 9	- 3.1, + 4.0
11	LINT	0234	0244	0310	1-	- 0.4	- 3	- 1.8
11	LINT	0658	0707	0749	1	- 1.3	- 9	0
12	YUNN	0700	0703	0718	1+	- 2.2		
12	YUNN	0724	0734	0749	1-	- 0.7		
12	YUNN	0751	0758	0808	1	- 1.8		

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

MARCH 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
13	YUNN	0210	0215	0253	1+	- 3.0		
14	LINT	0238	0246	0310	1-	- 0.4	0	- 0.9
15	LINT	0120	0154	0432	3+	-11.5	-57	- 5.1, + 5.9
15	YUNN	0126	0138	0245	3+	-10.3		
15	YUNN	0845	0849	0914	1+	- 2.5		
15	YUNN	0928	0935	0959	3+	-11.0		
16	LINT	0330	0335	0348U	1-	- 0.4	- 3	- 1.0
16	LINT	0350	0353	0412	1-	- 0.6	- 1	- 1.0
16	LINT	0536	0544	0604	1-	- 0.6	- 3	- 1.1
16	LINT	0607	0612	0640	1	- 1.9		- 1.2
18	LINT	0510	0522	0620	1-	- 0.5	- 4	- 1.2
21	LINT	0137	0150	0207	1-	- 0.4	- 4	+ 0.2
21	LINT	0711	0720	0751	1	- 1.7	-13	- 1.7
22	LINT	0745	0755	0808	1	- 1.2	- 4	- 0.8
24	YUNN	0431	0435	0452	1	- 1.1		
24	LINT	0433	0438	0458	1-	- 0.6	- 6	- 0.6
24	YUNN	0822	0826	0841	1+	- 2.3		
25	LINT	0000	0010	0024D	1	- 1.5	0	+ 1.2
25	LINT	0024	0033	0145U	1-	- 0.9	- 2	+ 0.9
25	LINT	0048	0058	0114	1-	- 0.5	- 5	+ 0.3
25	LINT	0134	0140	0148D	1-	- 0.3	- 5	+ 0.6
25	LINT	0148	0155	0237	1	- 1.4	- 5	- 2.3
25	YUNN	0150	0156	0213	1	- 1.9		
25	LINT	0342	0355	0411	1-	- 0.7	- 3	- 0.5
25	LINT	0415	0422	0446	1-	- 0.5	- 3	- 0.5
25	LINT	0750	0759	0818	1	- 1.7	- 9	0
25	YUNN	0753	0756	0818	1	- 1.4		
25	YUNN	0819	0824	0849	1+	- 2.4		
25	YUNN	0850	0852	0903	1+	- 2.7		
25	YUNN	0928	0934	1007	3-	- 6.4		
26	LINT	0100	0116	0214	2	- 4.5	-12	- 3.4, + 2.2
26	LINT	0353	0403	0428	1-	- 0.8	- 5	- 0.9
26	LINT	0540	0544	0610	1-	- 0.5	- 3	- 0.9
26	LINT	0801	0809	0834	1-	- 0.7	- 4	- 0.7
27	YUNN	0200	0202	0219	1	- 1.3		
27	YUNN	0903	0915	0948	3+	- 9.3		
29	LINT	0045	0050	0057U	1-	- 0.3	0	- 0.3
29	YUNN	0050	0053	0120	1+	- 2.8		
29	LINT	0057	0102	0122	1-	- 0.9	- 2	- 2.1
29	YUNN	0131	0133	0204	1+	- 2.2		

SUDDEN IONOSPHERIC DISTURBANCES (D REGION)

MARCH 1992

Day	Sta	Start (UT)	Max (UT)	End (UT)	Imp	SPA		SFA LF
						LF	VLF	
29	LINT	0341	0352	0424	1	- 1.6	- 5	- 3.4
29	YUNN	0342	0349	0422	1+	- 2.9		
29	LINT	0508	0516	0541	1-	- 0.7	- 3	- 1.7
30	LINT	0048	0055	0110	1-	- 0.5	- 3	- 1.4
30	LINT	0339	0343	0405	1-	- 0.3	- 2	- 0.8
31	LINT	0223	0235	0302	1-	- 0.5	- 2	- 1.2
31	LINT	0509	0521	0554	1+	- 2.5	- 8	- 2.3
31	LINT	0734	0742	0804	1-	- 0.6	- 3	+ 0.6

GEOMAGNETIC ACTIVITY INDICES K AND A_K

FEBRUARY 1992

BGMO

Three-Hourly Indices K

Day	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	Sum	A _K
1	1	2	3	3	4	4	5	6	28	28
2	4	4	3	6	6	5	5	6	39	51
3 D	5	5	5	6	6	6	5	5	43	60
4	3	4	3	3	3	3	6	5	30	29
5 Q	3	1	0	1	2	1	0	0	8	4
6 Q	2	2	0	0	2	2	2	1	11	5
7	2	1	3	5	4	4	2	2	23	18
8	3	4	5	3	6	7	4	5	37	50
9 D	6	6	5	6	7	6	5	4	45	73
10	3	5	2	3	5	5	3	2	28	25
11 Q	1	1	2	2	1	3	2	2	14	7
12	3	3	2	1	3	2	0	2	16	9
13	2	2	4	3	2	1	1	2	17	10
14	2	1	2	3	2	4	1	1	16	9
15 Q	0	0	1	1	3	0	1	0	6	3
16 Q	1	1	1	1	0	1	2	0	7	3
17	1	3	4	5	6	3	2	3	27	26
18	3	3	2	2	3	3	2	3	21	12
19	3	2	3	4	3	3	3	2	23	15
20 D	4	5	5	6	5	6	6	5	42	57
21 D	5	5	7	6	6	3	3	3	37	51
22	3	3	4	3	2	3	3	2	23	15
23	3	2	2	1	1	2	2	3	16	8
24	3	3	4	3	4	5	5	5	32	30
25	6	3	5	4	5	4	4	4	35	37
26	2	3	4	3	5	7	5	5	34	44
27 D	6	5	7	7	5	5	5	4	44	72
28	2	2	3	2	2	0	2	2	15	7
29	3	2	1	6	5	6	6	3	32	41
									Sum	799
									Mean	27.6

GEOMAGNETIC ACTIVITY INDICES K AND A_K

MARCH 1992

BGMO

Three-Hourly Indices K

Day	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	Sum	A _K
1	2	3	3	2	2	3	2	2	19	10
2	1	2	2	2	3	2	4	1	17	10
3	1	3	2	2	3	4	3	1	19	12
4	3	2	3	1	3	5	3	2	22	16
5	3	3	2	3	2	4	2	1	20	12
6 Q	2	1	3	1	2	0	1	1	11	5
7	2	2	1	2	2	4	2	3	18	10
8	2	2	2	2	5	3	2	3	21	14
9 D	3	3	3	6	3	4	4	2	28	25
10	3	3	3	3	3	3	3	3	24	15
11	2	4	3	3	4	3	3	1	23	16
12	1	3	2	2	2	3	1	1	15	8
13 Q	1	3	2	3	2	1	0	0	12	6
14 Q	1	1	1	1	1	2	2	2	11	5
15	4	3	4	4	2	3	3	2	25	18
16	3	3	4	3	5	3	4	3	28	22
17 D	2	2	2	5	5	5	6	5	32	37
18	3	4	5	3	4	3	2	2	26	20
19 Q	1	0	1	0	1	2	1	1	7	3
20 Q	1	1	2	1	0	2	1	2	10	4
21 D	3	2	3	5	5	4	3	2	27	23
22	2	3	1	2	3	2	2	3	18	10
23 D	4	3	4	3	3	3	5	3	28	22
24 D	2	3	1	2	3	5	3	4	23	17
25	4	3	2	3	3	2	2	1	20	12
26	2	2	1	3	3	3	4	1	19	12
27	2	3	2	2	2	2	4	3	20	12
28	1	2	2	2	4	3	2	3	19	11
29	2	1	3	4	3	4	4	2	23	16
30	1	2	2	2	3	2	3	1	16	8
31	2	3	2	2	2	4	4	3	22	14
									Sum	425
									Mean	13.7

MAGNETIC STORMS

FEBRUARY - MARCH 1992

BGMO

Time of Magnetic				Sudden Com.			Deg.	Maximum Acti.				Maximum			
Beginning		Ending		Type	Amplitude			of	on K-scale				Range		
Day	h	m	Day		h	D'	HnT	ZnT	Acti.	Day	Int.	Index	D'	HnT	ZnT
FEBRUARY, 1992															
01	06	07	C		SC	0.8	21	1	ms	01	8	6	9.6	128	25
02	11	54	05	03	SC	1.6	77	4	ms	03	8	6	13.7	190	38
08	04	07	C		SC	0.6	14	0							
08	14	28	10	21	SC	4.7	82	4	ms	08	6	7	16.9	289	58
20	01	10	22	18	SC	3.4	15	1	ms	21	3	7	16.7	289	63
24	07	3	C		SC	0.7	22	0							
24	16	28	C		SC	0.5	29	1	ms	25	1	6	12.5	140	37
26	16	57	28	15	SC	1.9	100	7	ms	27	4	7	13.6	229	32
29	09	20	01	01	SC	0.8	31	3	ms	29	6	6	8.3	133	24
MARCH, 1992															
17	09	51	18	22	SC*	1.9	55	4	ms	17	7	6	13.7	114	35

1992年3月15日的射电爆发和它的偏振度

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1992年3月15日北京天文台在2840 MHz, 2645 MHz和2545 MHz上同时观测到一个射电大爆发。日面有3B级耀斑。在2645 MHz和2545 MHz上我们观测到较强的偏振现象。射电爆发的观测资料见图1和图2(a)、(b)(只给出爆发的主要部分)。图1是1992年3月15日在2840 MHz上观测到的射电大爆发。该爆发开始时间为0122 UT, 极大时间为0155.4 UT, 持续时间为86分钟, 相对流量为5.42 $S_{\odot}$ ($S_{\odot}$ 是宁静太阳)。图2(a)和(b)分别为2645 MHz和2545 MHz上的射电爆发。两个波段开始时间均为0112 UT, 极大时间为0155.2 UT, 结束时间为0240 UT, 相对流量分别为5.00 $S_{\odot}$ 和4.60 $S_{\odot}$ 。该爆发为47 GB型。

图3显示了在2645 MHz和2545 MHz记录到的爆发的偏振分量随时间的变化。在此我们给出了计算偏振度的公式。即

$$P = \frac{S_L - S_R}{S_L + S_R}$$

其中 S_L 和 S_R 分别表示2645 MHz和2545 MHz的左旋偏振和右旋偏振的流量密度。P表示偏振度。我们根据公式分别算出2645 MHz和2545 MHz的偏振度分别为30%和26%。两个波段均为右旋偏振。

该爆发的基本参量列入表1。

表1. 射电爆发的基本参量

Table 1. The parameters of the radio bursts

时 间 Date	频 率 Freq (MHz)	开 始 Start (UT)	极 大 Max (UT)	结 束 End (UT)	相对流量 Rel flux(%)	类 型 Type
1992. 3. 15	2840	0122	0155.4	0239	542	47GB
	2645	0112	0155.2	0240	500	47GB
	2545	0112	0155.2	0240	460	47GB

THE SOLAR RADIO BURST AND ITS DEGREES OF THE POLARIZATION RECORDED ON MARCH 15, 1992

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We observed an outstanding solar radio burst at 2840 MHz, 2645 MHz and 2545 MHz on March 15, 1992. Some fast fine structures and spikes events did not occur at the three frequencies. The degrees of polarization of the solar radio burst at 2645 MHz and 2545 MHz were 30% and 26%, respectively. Time profiles of the solar radio burst are given in Figure 1 and Figure 2 (a), (b). Figure 1 shows the time profile of the burst at 2840 MHz on March 15, 1992. It started at 0122 UT, peaked at 0155.4 UT and ended at 0239 UT. Its relative flux is 5.42 $S_{\odot}$ ($S_{\odot}$ - the quiet sun). Figure 2 (a) and (b) shows that the time profiles of the radio burst at 2645 MHz and 2545 MHz. They started at 0112 UT, peaked 0155.2 UT and ended at 0240 UT. Their relative intensities are 5.0 $S_{\odot}$ and 4.6 $S_{\odot}$, respectively. The burst is classified as 47 GB.

The formula used for calculating the degree of polarization of a solar radio burst can be written as:

$$P = \frac{S_L - S_R}{S_L + S_R}$$

Where S_L is the flux density in L polarization (left-handed) and S_R is the flux density in R polarization (right-handed). P is the degree of polarization. The polarization components of the burst recorded at 2645 MHz and 2545 MHz are given in Fig.3. The result shows that the degrees of polarization of the solar radio burst at 2645 MHz and 2545 MHz are mainly the right-handed. The parameters of the radio burst are listed in Table 1.

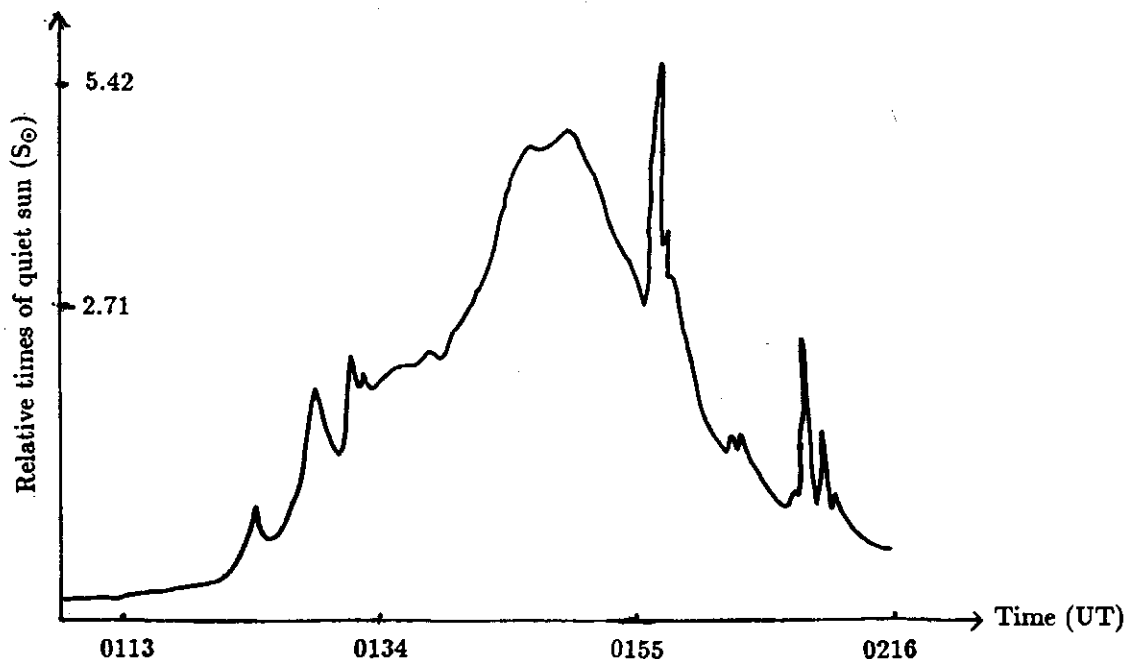


Fig.1. The time profile of the radio burst
observed at 2840 MHz on March 15,1992.

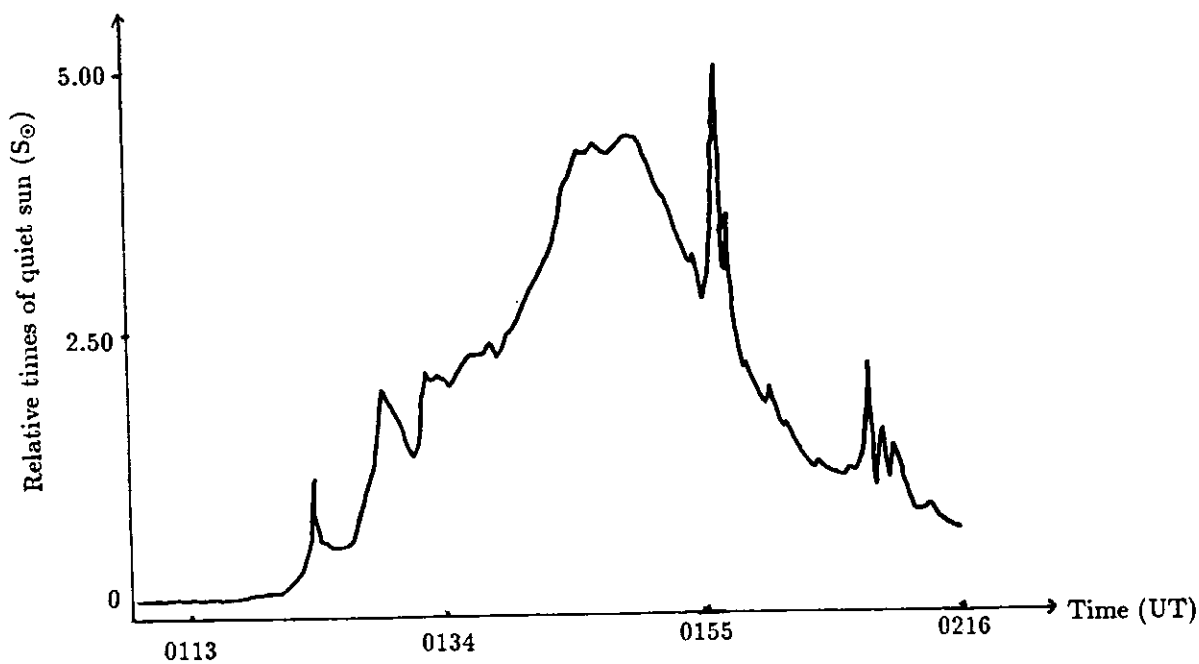


Fig.2.(a) The time profile of the radio burst
observed at 2645 MHz on March 15,1992.

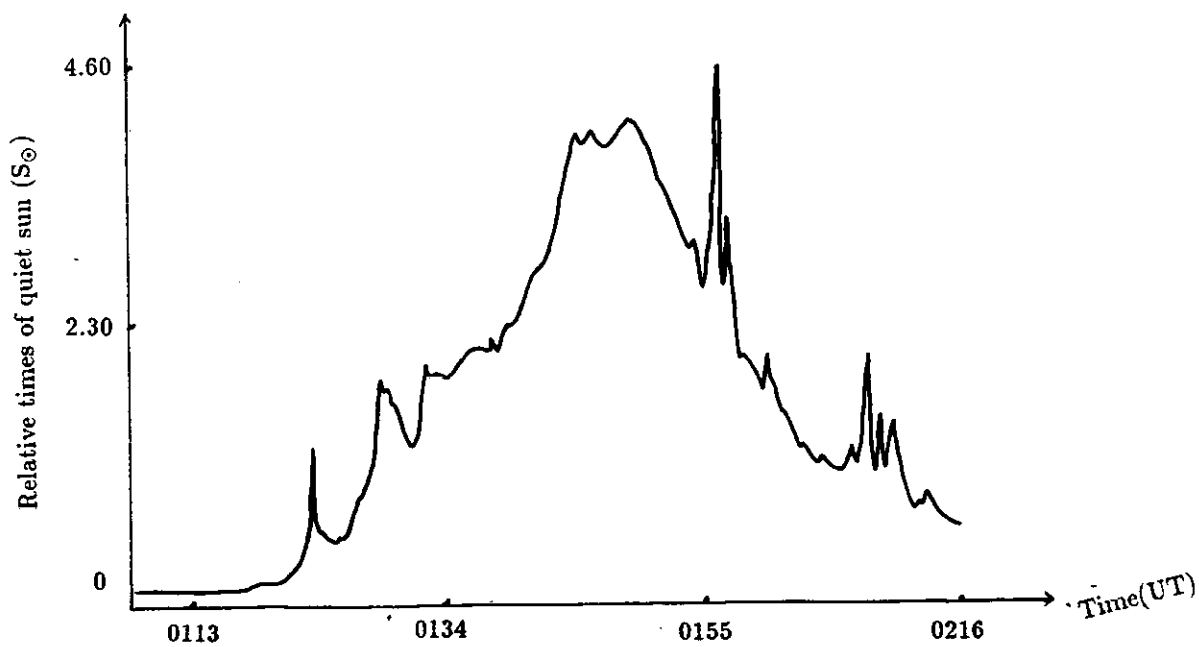


Fig.2.(b) The time profile of the radio burst
observed at 2545 MHz on March 15,1992.

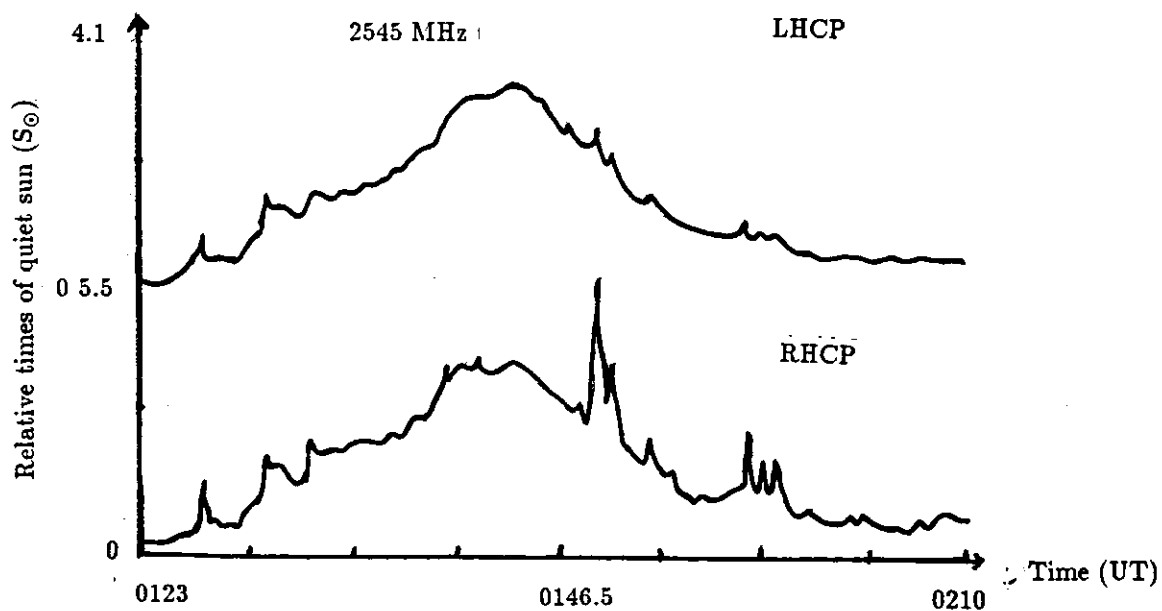
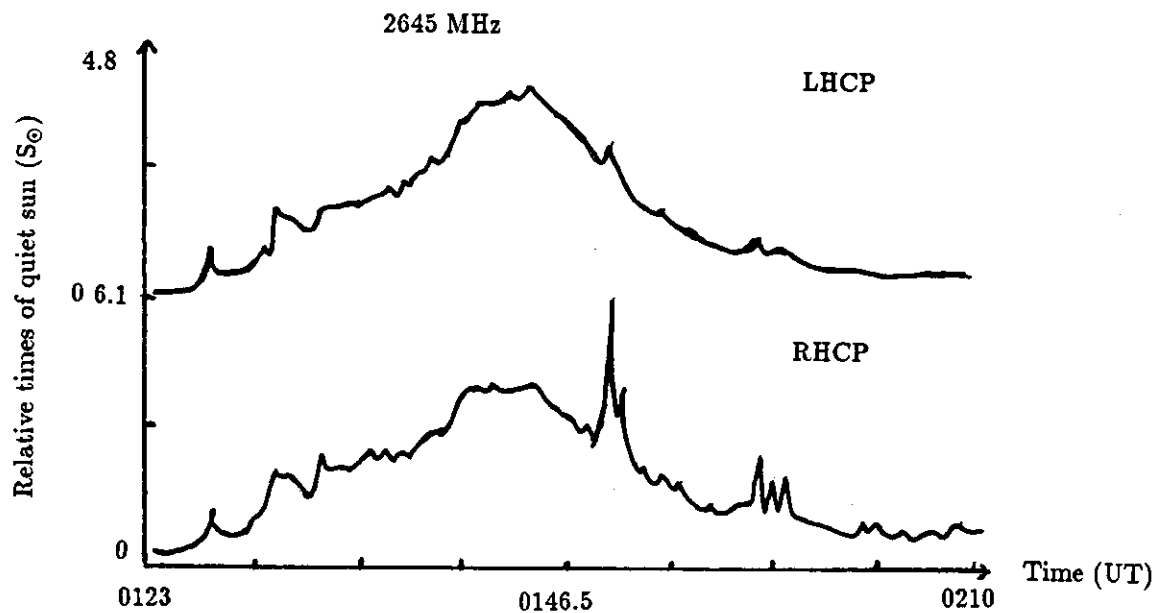


Fig.3. The polarization components of the burst recorded at 2645 MHz and 2545 MHz.

一个伴有快速精细结构的太阳射电爆发

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1991年5月16日 0631 UT—0907 UT 北京天文台在 2.84 GHz 频率上观测到一个太阳射电爆发(见图 1)。开始时间为 0631.0 UT; 极大时间为 0646.8 UT; 持续时间 156.0 分钟, 形态为 47 GB。最大峰值流量是 3041.0 s.f.u., 相对流量为 1352 %。秒级爆发分两部分, 前一部分相当复杂, 有很多脉冲和大小不同的尖峰, 后一部分比较光滑, 就在秒级爆发的前半部分记录到丰富的快速精细结构(见图 2)。图中 a 是从 06:42:48.650 UT—06:43:08.000 UT, 峰值时间是 06:42:48.000 UT; b 是从 06:46:16.000 UT—06:50:39.650 UT, 极大时间为 06:46:46.288 UT; c 是从 06:46:43.000 UT—06:46:51.000 UT, 极大时间为 06:46:46.288 UT, 它是 b 中的 8 秒钟的曲线, 进一步显示了快速精细结构, 它的时间尺度是几百毫秒。射电爆发的基本参数列入表 1。同时, 日面上发生了一个 2B 级耀斑, 开始时间是 0644 UT, 极大时间是 0700 UT, 结束时间是 1015 UT。

表 1. 射电爆发的基本参数

Table 1. Some fundamental parameters of the radio burst

日 期	频 率	型 别	开始时间	极大时间	持续时间	峰值流量	相对流量
Date	Freq(MHz)	Type	Start(UT)	Max(UT)	Dur (min)	Peak(sfu)	Rel(%)
1991.5.16	2840	47 GB	0631.0	0646.8	156.0	3041.0	1352.0

SOLAR RADIO BURST WITH FAST FINE STRUCTURE

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During the interval of 0631-0907 UT of May 16, 1991, a solar radio burst was observed at 2.84 GHz (see Figure 1). The burst started at 0631.0 UT, peaked at 0646.8 UT and endured for 156 minutes. It was classified as 47 GB. Its maximum peak flux density was 3041.0 s.f.u. and relative flux density was 13.52 $S_{\odot}$. The burst recorded with a resolution of a second consisted of two parts. The front half was very complex and it was superimposed with many pulses and spikes varied in size. The second half was smooth. A wealth of Fast Fine Structures were recorded in the front half of the burst (see Figure 2). In Figure 2a the time profile from 06:42:48.650-06:43:08.000 UT is shown. The peak time is 06:42:48.000 UT. In Figure 2b the time profile from 06:46:16.000-06:50:39.650 UT with the maximum at 06:46:46.288 UT is given while the time profile from 06:46:43.000-06:46:51.000 UT is shown in Figure 2c. The peak time is at 06:46:46.288 UT. It is a 8 second section in b and extendedly shows the Fast Fine Structures. Its time scale is a few of hundred milliseconds. Some fundamental parameters of the radio burst are listed in Table 1. An associated 2B flare occurred on the solar disk. It started at 0644 UT, peaked at 0700 UT and ended at 1015 UT.

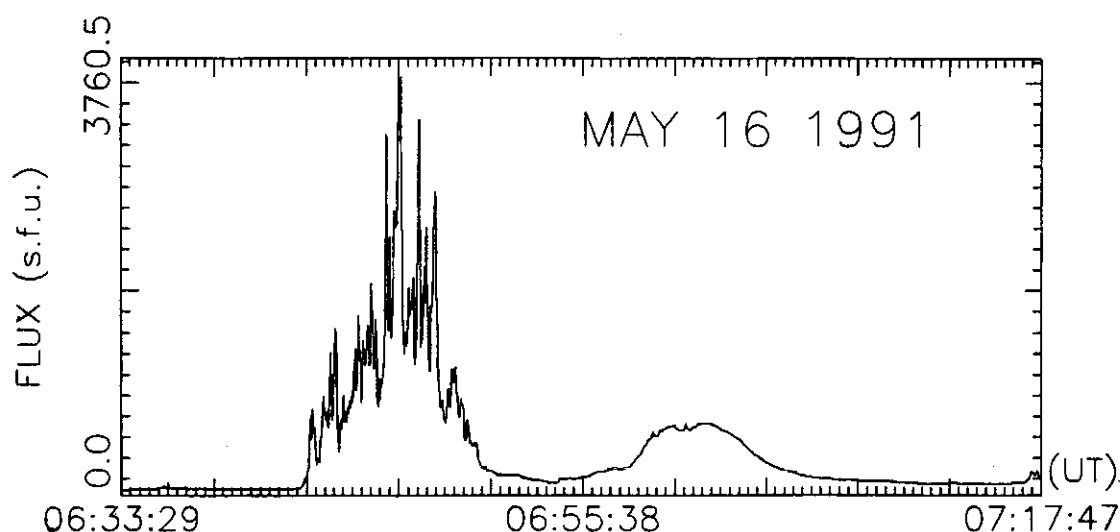


Fig.1. The time profiles of the radio burst observed at 2.84 GHz on May 16, 1991.

Fig.2. The time profiles of the Fast Fine Structure observed at 2.84 GHz on May 16, 1991, from top to bottom in turn a, b and c.

