



Bureau des Publications SIIG - Bulletin Mensuel n°99-06 - Juin 1999
ISGI Publications Office Monthly Bulletin n°99 - 06 - June 1999

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Explanations about published data are given in Special Issue 1994 of ISGI Monthly Bulletin.

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PRELIMINARY REPORT ON RAPID VARIATIONS

JUNE 1999

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

15 13 08 A : WNG* GUI
 B : NUR* NGK* VAL HRB NAG COI
 C : SOD* BDV* GCK* EBR SPT QUE HYB ETT
 26 03 25 A : NAG* COI ETT
 B : WNG* VAL CLF* SPT* GUI HYB
 C : NGK* BDV* GCK EBR QUE
 26 20 16 A : WNG* NGK* VAL* CLF* HRB* NAG GCK*
 EBR* COI SPT* GUI HYB ETT GNA* HER
 B : NUR* BDV* QUE
 28 05 11 A : NGK VALCOI* SPT*
 B : WNG
 C : NAG*
 si : HRB QUE GUI sfe : HYB

01 0628-0640 MMB+ KAK+ KNY+HYB ETT
 02 0510-0525 MMB+ KAK+ KNY+
 07 0455-0504 ETT
 18 0711-0716 BDV+
 20 1529-1542 BDV+
 23 0331-0346 ETT
 26 0510-0525 MMB+ KAK+ KNY+
 28 0510-0530 HYB (see SSC)
 29 0504-0535 MMB+ KAK+ KNY+
 30 0600-0612 HYB ETT
 30 1125-1129 BDV+

REPORTING OBSERVATORIES (up to 2nd of August 1999) :

SOD NUR WNG NGK VAL BDV CLF HRB NAG GCK MMB EBR COI SPT KAK KNY QUE GUI HYB ETT GNA HER CNB

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

June 1999

21 14 22 20 30

27 28 26* 9* 8*

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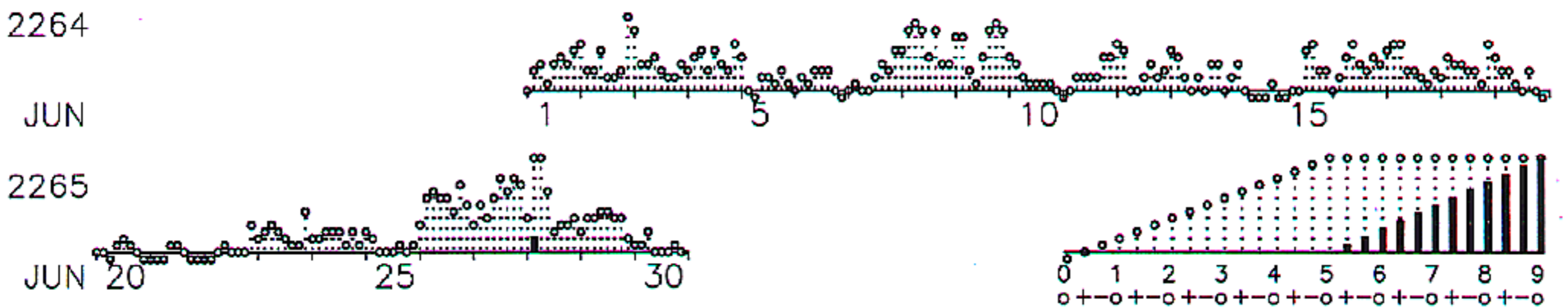
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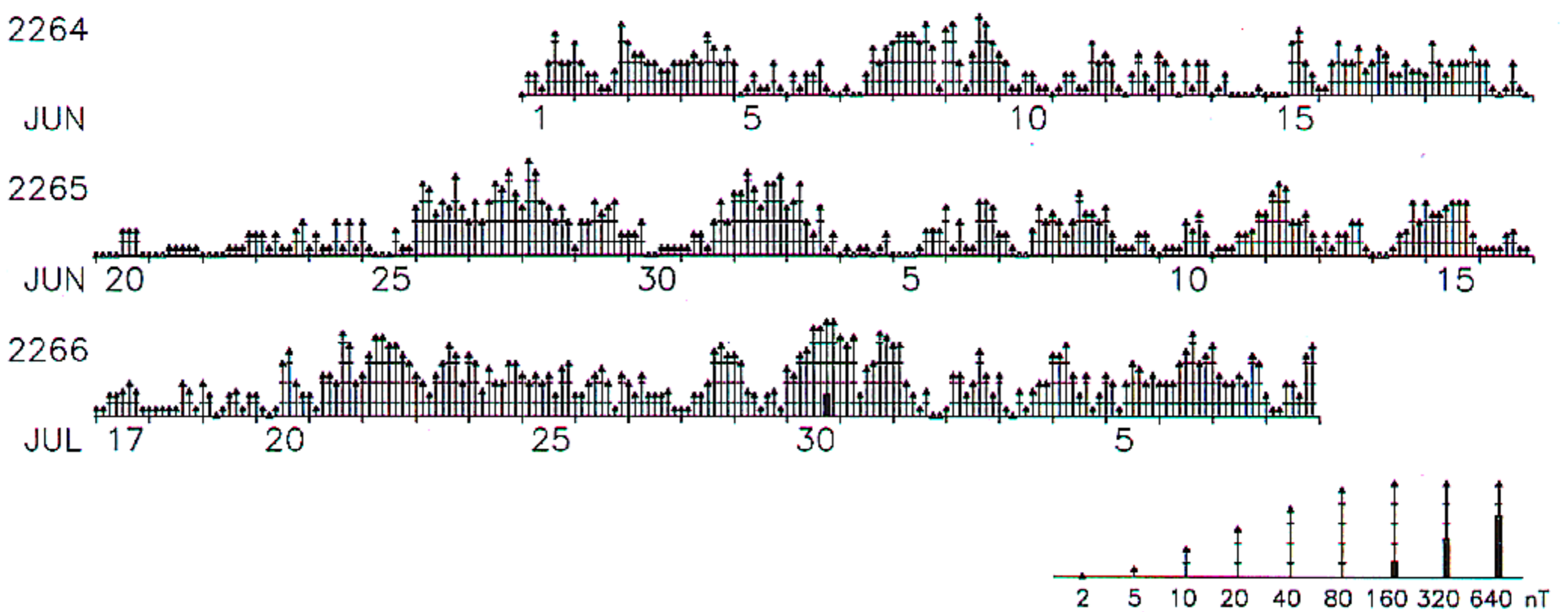
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JUNE 1999						Geomagnetic Indices (provisional)								Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	16	7	6	17	12	KK	3 0+	10 1+	12 2-	4 1-	11 2-	15 2o	11 2-	18 2+	11	12-	6	12+
2	19	10	13	16	15		24 3-	8 1+	10 1+	18 2+	7 1o	6 1o	8 1+	54 4o	17	15o	10	15+
3	18	10	17	11	14		38 3+	13 2-	12 2-	14 2o	10 1+	7 1o	6 1o	11 2-	14	14-	7	13+
4	22	12	13	21	17	K	10 1+	16 2o	17 2+	10 1+	19 2+	12 2-	9 1+	26 3-	15	15o	8	16+
5	9	5	7	7	7	CK	14 2o	3 0+	1 0o	7 1o	6 1o	4 1-	9 1+	5 1-	6	7o	4	8o
6	7	5	6	7	6	CC	3 0+	6 1o	4 1-	9 1+	8 1+	10 1+	2 0+	0 0o	5	6+	3	6-
7	13	5	3	15	9	C	3 0+	4 1-	2 0+	3 0+	6 1o	12 2-	9 1+	20 2+	7	8o	5	10-
8	32	22	30	24	27		20 2+	34 3+	45 4-	38 3+	15 2o	36 3+	13 2-	12 2-	27	21+	13	22o
9	29	32	25	36	31		28 3o	33 3o	10 1+	5 1-	14 2o	40 3+	41 4-	34 3+	26	20+	14	21+
10	10	6	10	7	8	C	16 2o	13 2-	7 1o	4 1-	4 1-	5 1-	4 1-	3 0+	7	8-	4	8+
11	8	10	6	12	9	CC	1 0o	2 0+	6 1o	7 1o	7 1o	6 1o	14 2o	16 2o	7	8+	4	8+
12	10	8	9	9	9	CC	25 3-	19 2+	2 0+	2 0+	6 1o	11 2-	6 1o	10 1+	10	11-	5	10-
13	12	8	10	10	10	CC	17 2+	14 2o	6 1o	3 0+	6 1o	2 0+	12 2-	13 2-	9	10+	4	9+
14	4	3	4	3	4	CC*	2 0+	6 1o	11 2-	3 0+	1 0o	1 0o	1 0o	4 1-	4	4o	2	4o
15	15	7	2	20	11	KK	1 0o	0 0o	3 0+	3 0+	18 2+	24 3-	10 1+	9 1+	9	8+	6	10-
16	18	7	12	13	12	C	3 0+	6 1o	14 2o	21 3-	11 2-	10 1+	16 2o	12 2-	12	13-	7	14o
17	16	8	14	10	12	CC	17 2+	22 3-	22 3-	9 1+	9 1+	6 1o	5 1-	9 1+	12	13+	6	12+
18	18	9	13	14	14	CC	6 1o	16 2o	13 2-	11 2-	8 1+	10 1+	5 1-	24 3-	12	12+	6	13+
19	9	5	8	6	7	CC	15 2o	9 1+	8 1+	4 1-	3 0+	9 1+	3 0+	1 0o	7	7+	4	8+
20	7	2	2	7	5	CC*	2 0+	2 0+	1 0o	4 1-	6 1o	5 1-	3 0+	0 0o	3	3+	2	5-
21	6	2	3	5	4	CC*	1 0o	1 0o	1 0o	5 1-	4 1-	2 0+	1 0o	1 0o	2	2-	2	3+
22	5	3	2	6	4	CC*	1 0o	1 0o	3 0+	4 1-	3 0+	3 0+	2 0+	12 2-	4	4-	2	4-
23	10	5	7	8	8	CC	6 1o	8 1+	13 2-	10 1+	6 1o	5 1-	5 1-	17 2+	9	10o	4	9o
24	10	5	6	9	7	CC	7 1o	7 1o	8 1+	9 1+	8 1+	5 1-	8 1+	4 1-	7	9-	4	9+
25	8	3	5	5	5	CK	10 1+	7 1o	2 0+	3 0+	2 0+	4 1-	2 0+	5 1-	4	5o	3	6+
26	43	17	30	31	30		12 2-	32 3o	40 3+	29 3o	30 3o	17 2+	46 4-	24 3-	29	23-	18	25o
27	43	20	18	45	32		12 2-	23 3-	15 2o	28 3o	51 4o	39 3+	54 4o	48 4-	34	24+	25	29-
28	45	24	53	16	35		16 2o	137 6-	91 5o	34 3+	10 1+	12 2-	11 2-	14 2o	41	23-	24	26-
29	20	10	13	17	15	K	10 1+	15 2o	16 2o	18 2+	17 2+	14 2o	14 2o	6 1o	14	15o	6	14o
30	7	5	8	4	6	CC*	5 1-	4 1-	9 1+	3 0+	3 0+	3 0+	4 1-	2 0+	4	5-	3	5+

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) JUN 1999



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUN-AUG 1999



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - JUNE 1999 -

DAY	Unit=NT																								U.T.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	22	23	24		
1	-2	-1	-2	-3	-1	3	2	10	11	11	16	17	19	19	19	19	19	19	21	15	12	13	15	15	5				
2	0	2	3	1	-3	-6	-3	-1	-3	-5	-1	5	2	0	2	5	9	11	13	16	13	17	12	6					
3	-5	-1	-3	-6	-5	-2	2	10	10	14	13	12	12	13	18	16	19	24	26	25	20	15	16	15					
4	14	13	11	9	1	-3	-2	-2	-4	1	5	5	0	2	5	6	8	8	7	4	3	2	3	9					
5	10	7	7	3	3	4	8	12	14	15	13	11	7	9	9	9	9	7	9	6	3	1	2	4					
6	4	4	3	0	0	5	4	5	4	5	12	14	12	12	13	16	14	13	16	14	14	16	14	14					
7	13	11	10	11	10	9	10	11	11	14	15	13	11	12	14	16	19	22	24	19	16	9	3	6					
8	13	19	18	16	14	7	7	14	12	20	21	21	19	20	14	7	-3	-6	-5	-4	-4	-12	-11	-7					
9	1	2	-8	-22	-24	-19	-15	-10	-9	-7	-9	-10	-11	-10	-8	-12	-7	-7	-3	-2	-5	-6	-10	-7					
10	-5	-4	-6	-10	-10	-8	-6	-3	-2	-2	-4	-7	-9	-10	-8	-9	-9	-8	-5	-5	-7	-8	-6	-4					
11	-3	1	2	2	1	-1	-3	-3	3	6	2	-3	-6	-3	-3	-6	-10	-10	-9	-10	-12	-15	-16	-13					
12	-6	-2	-5	-7	-13	-14	-13	-11	-7	-4	-4	-3	-3	-6	-7	-10	-12	-10	-8	-10	-10	-11	-11	-8					
13	-6	-7	-11	-14	-12	-12	-14	-11	-7	-3	-1	2	1	2	1	1	2	3	3	1	-2	-3	-1	3					
14	3	1	0	0	0	-2	-3	-2	-1	1	1	3	2	2	5	6	6	6	9	8	5	1	2	4					
15	5	5	4	4	3	5	7	10	14	17	16	15	16	25	22	18	21	15	23	24	20	16	17	17					
16	20	18	15	10	10	11	11	6	10	13	12	11	10	10	12	15	16	15	19	15	11	11	11	9					
17	11	10	2	1	4	10	3	3	7	11	12	11	10	10	12	12	12	15	19	20	17	12	10	9					
18	10	8	7	5	5	5	0	3	4	7	9	11	13	13	14	16	18	19	20	15	9	5	3	2					
19	4	7	6	3	1	-2	0	6	8	8	9	10	9	10	11	10	9	9	13	13	12	12	13	14					
20	13	12	12	11	10	11	11	10	11	10	13	13	12	10	9	11	12	11	7	8	10	10	11	11					
21	12	13	15	18	19	19	16	16	17	17	13	11	11	12	13	11	11	10	12	12	10	12	13	13					
22	17	18	18	18	18	17	16	16	16	17	18	17	19	20	20	20	20	23	21	21	23	22	18	17					
23	18	19	19	15	11	11	10	10	5	2	-1	-3	-3	-1	2	3	2	-1	1	1	-2	0	2	7					
24	10	9	4	-1	-4	-3	1	0	0	0	2	3	-1	3	8	10	10	6	4	-2	-4	-2	-1	-1					
25	-1	4	7	7	7	5	3	6	9	7	7	10	12	15	15	15	12	9	9	9	11	14	14	11					
26	11	15	19	30	22	12	14	14	4	-5	-15	-20	-15	-2	-2	-6	-2	2	5	6	27	30	14	8					
27	10	11	15	10	5	3	6	6	9	13	17	12	-12	-24	-11	-5	-7	-21	-21	-22	-15	-21	-18	-12					
28	-11	-7	1	20	2	17	-3	-34	-34	-38	-43	-39	-35	-33	-32	-32	-30	-28	-25	-27	-28	-27	-29	-28					
29	-24	-18	-17	-16	-19	-21	-22	-18	-15	-15	-18	-13	-15	-14	-15	-14	-14	-11	-11	-13	-15	-18	-19	-19					
30	-19	-16	-16	-17	-15	-14	-9	-11	-11	-10	-9	-8	-7	-8	-5	-4	-4	-4	-4	-4	-6	-8	-9	-11	-11				

