



Bureau des Publications SIIG - Bulletin Mensuel n°99 - 04 - Avril 1999
ISGI Publications Office Monthly Bulletin n°99 - 04 - April 1999

CONTENTS

Rapid Variations	- provisional determination of ssc and sfe	April 1999
Classification of days	- five international quietest days and most disturbed days	April 1999
aa	- hemispheric N, S, daily values and planetary half day and daily values	April 1999
	- musical diagram of aa (latest values)	April 1999 up to June 13 th
1999		
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	April 1999
am, Km	- three hour indices values musical diagram of Km	April 1999
Am, ΣKm	- daily values	April 1999
Ap, ΣKp	- daily values	April 1999
	- monthly tables of hourly indices	April 1999
Dst	- monthly tables of hourly indices	April 1999

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

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PRELIMINARY REPORT ON RAPID VARIATIONS

APRIL 1999

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

16 11 25 A : SOD* NUR* WNG* DOU* HRB
NAG* COI* BJI SPT*
B : NGK* BDV* GCK* MMB* EBR KAK
KNY QUE HYB ETT HER
C : GNA CNB*

01 0651-0658 BDV
02 0810-0840 BDV+
04 0519-0540 MMB+ KAK+ KNY+ HYB ETT
GNA+ CNB+

REPORTING OBSERVATORIES (up to 4th of June 1999) :

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

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

April 1999

13 15 22 23 25

17 20 29 30 28*

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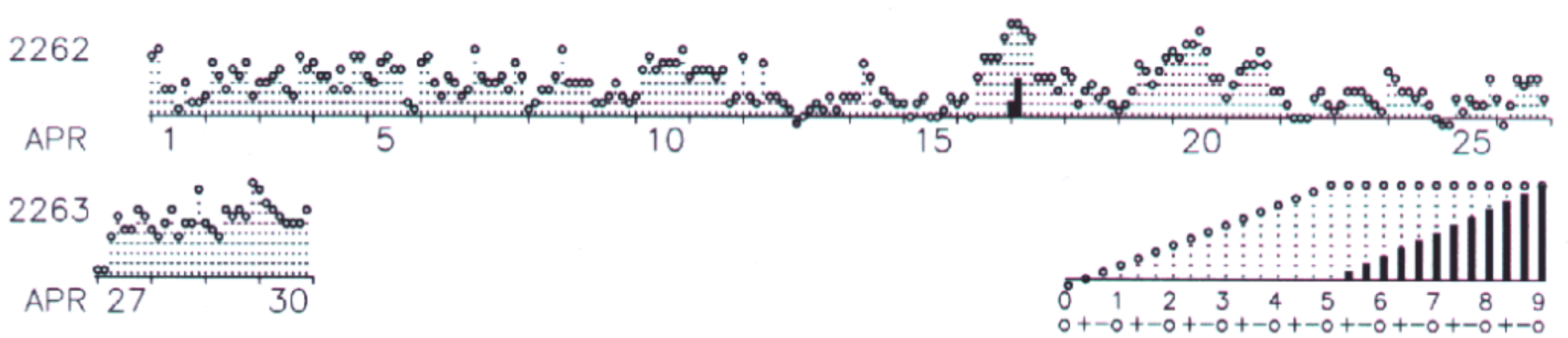
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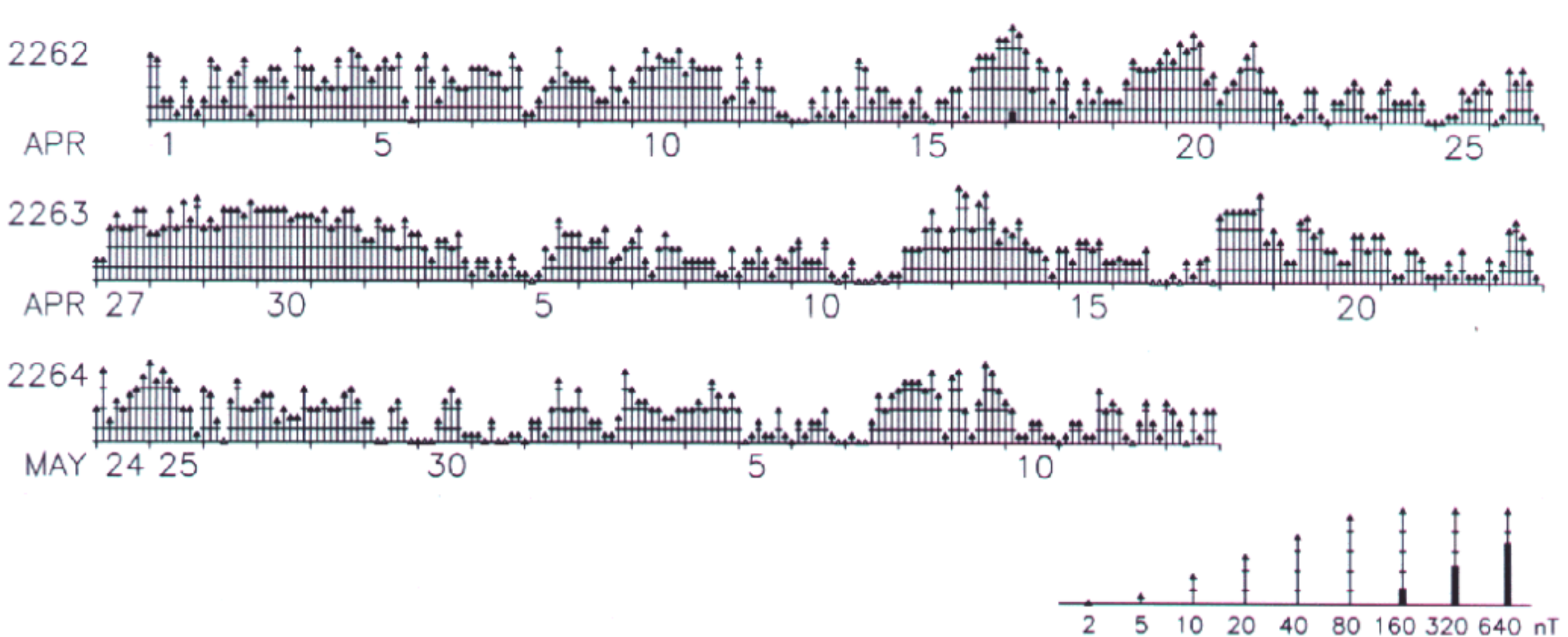
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APRIL 1999						Geomagnetic Indices (provisional)								Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	18	12	21	9	15		40 3+	47 4-	12 2-	12 2-	4 1-	14 2o	7 1o	7 1o	18	15o	12	16o
2	21	15	18	18	18		10 1+	27 3o	20 2+	12 2-	22 3-	18 2+	28 3o	10 1+	18	18-	10	18+
3	25	19	20	24	22		16 2o	15 2o	20 2+	22 3-	13 2-	10 1+	35 3+	21 3-	19	18o	10	19-
4	28	19	16	32	24		30 3o	20 2+	18 2+	12 2-	25 3-	12 2-	36 3+	35 3+	24	20+	14	22o
5	22	20	24	18	21		20 2+	15 2o	31 3o	35 3+	23 3-	22 3-	7 1o	5 1-	20	18-	12	19+
6	22	15	21	16	19		31 3o	35 3+	14 2o	9 1+	17 2+	14 2o	10 1+	11 2-	18	17o	10	17-
7	26	20	23	23	23		41 4-	20 2+	16 2o	15 2o	19 2+	12 2-	28 3o	18 2+	21	19+	11	19+
8	16	16	8	25	16		4 1-	6 1o	11 2-	13 2-	17 2+	44 4-	15 2o	16 2o	16	15o	8	14+
9	14	12	13	13	13	C	14 2o	14 2o	7 1o	6 1o	8 1+	14 2o	10 1+	7 1o	10	12-	6	12-
10	38	26	27	37	32		9 1+	21 3-	37 3+	22 3-	27 3o	28 3o	30 3o	43 4-	27	23-	16	24o
11	19	23	25	16	21		19 2+	22 3-	24 3-	22 3-	17 2+	22 3-	7 1o	10 1+	18	18-	10	18-
12	18	13	23	9	16	K	35 3+	10 1+	6 1o	27 3o	9 1+	10 1+	6 1o	4 1-	13	13o	8	13o
13	8	5	4	9	6	CK*	0 0o	2 0+	4 1-	7 1o	4 1-	8 1+	4 1-	10 1+	5	6o	3	6o
14	14	13	17	10	14	K	8 1+	9 1+	27 3o	18 2+	7 1o	11 2-	10 1+	6 1o	12	13o	7	13+
15	7	7	8	6	7	CC*	7 1o	2 0+	6 1o	9 1+	2 0+	3 0+	5 1-	9 1+	5	6+	4	7o
16	41	17	13	45	29		7 1o	10 1+	2 0+	20 2+	39 3+	39 3+	35 3+	68 4+	28	19+	18	23-
17	68	33	82	19	51		135 6-	203 7-	73 5-	61 4+	18 2+	18 2+	20 2+	11 2-	67	30o	47	33-
18	14	10	13	11	12	C	22 3-	18 2+	6 1o	11 2-	16 2o	9 1+	11 2-	6 1o	12	14-	6	13+
19	20	22	16	26	21		5 1-	6 1o	11 2-	33 3o	21 3-	16 2o	26 3-	34 3+	19	17o	12	19o
20	43	46	46	44	45		41 4-	40 3+	51 4o	52 4o	83 5-	49 4-	20 2+	17 2+	44	28o	24	30-
21	21	27	15	33	24		8 1+	16 2o	24 3-	29 3o	31 3o	47 4-	27 3o	13 2-	24	20+	12	19+
22	9	6	7	9	8	C*	12 2-	7 1o	3 0+	2 0+	3 0+	8 1+	11 2-	6 1o	7	8-	4	8+
23	10	7	8	10	9	CC*	4 1-	7 1o	11 2-	12 2-	12 2-	10 1+	7 1o	4 1-	8	10-	5	10-
24	10	8	11	8	9	CC	24 3-	19 2+	11 2-	13 2-	8 1+	11 2-	6 1o	2 0+	12	13-	6	11+
25	10	6	4	12	8	CC*	0 0o	1 0o	8 1+	5 1-	8 1+	7 1o	7 1o	17 2+	7	8-	4	9o
26	15	11	11	15	13	K	8 1+	1 0o	6 1o	18 2+	16 2o	19 2+	20 2+	8 1+	12	13-	6	12+
27	28	26	20	35	27		5 1-	5 1-	19 2+	34 3+	21 3-	22 3-	43 4-	40 3+	24	19+	14	20+
28	43	30	27	46	36		22 3-	20 2+	32 3o	48 4-	18 2+	32 3o	30 3o	80 5-	35	25-	19	26o
29	43	35	32	47	39		28 3o	24 3-	18 2+	48 4-	36 3+	47 4-	39 3+	93 5o	42	27o	24	29+
30	42	42	46	38	42		73 5-	54 4o	41 4-	34 3+	32 3o	27 3o	30 3o	41 4-	42	28+	23	29+

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



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

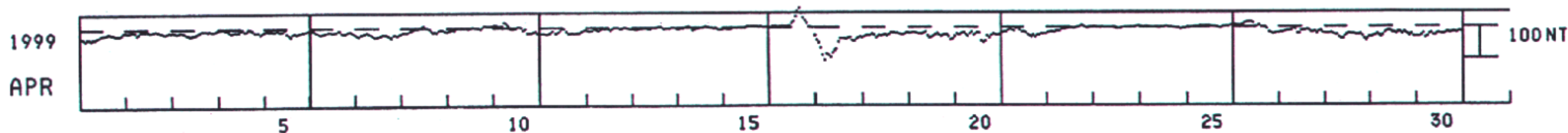


Dst monthly table of hourly indices - April 1999

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

APRIL 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
1	-29	-30	-37	-31	-31	-34	-30	-30	-27	-24	-19	-18	-17	-15	-14	-14	-15	-15	-19	-19	-20	-17	-12	-10
2	-12	-12	-10	-7	-10	-17	-13	-8	-8	-8	-8	-10	-9	-7	-6	-6	-8	-10	-11	-14	-16	-14	-10	-11
3	-10	-11	-13	-11	-10	-11	-13	-17	-18	-23	-20	-18	-16	-11	-9	-5	-6	-6	-7	-6	-7	-8	-5	-4
4	-2	-2	-2	-3	-6	-10	-14	-11	-9	-12	-9	-4	-1	-7	-7	-2	-1	-5	-11	-11	-11	-17	-14	-9
5	-8	-8	-9	-7	-9	-9	-6	-10	-10	-10	-4	-15	-21	-26	-18	-15	-17	-15	-13	-12	-11	-9	-8	-9
6	-7	-8	-12	-14	-18	-19	-18	-16	-13	-11	-12	-14	-13	-11	-7	-8	-15	-18	-15	-11	-10	-12	-15	-19
7	-24	-26	-21	-19	-17	-13	-17	-21	-25	-29	-28	-26	-24	-21	-19	-20	-25	-29	-30	-22	-20	-24	-20	-18
8	-13	-13	-13	-11	-8	-7	-3	-3	-3	-1	5	7	2	-2	-3	-9	-13	-11	-14	-7	-5	-6	-10	-12
9	-9	-7	-6	-7	-1	-1	-3	-1	-2	-2	-3	-2	1	3	2	2	-2	-4	3	7	5	5	6	7
10	9	10	6	6	8	17	14	8	-4	-3	-3	-1	4	4	1	-7	-4	-15	-16	-16	-13	-11	-17	-22
11	-17	-18	-20	-20	-18	-13	-10	-17	-17	-13	-7	-3	-4	-11	-17	-18	-16	-17	-16	-15	-15	-12	-8	-7
12	-9	-12	-9	-6	-5	-8	-9	-6	-2	-3	-1	-4	-7	-4	0	1	1	-4	-2	0	1	-1	-3	-4
13	-3	-5	-5	-3	-2	-2	-1	-1	-3	-3	0	0	0	3	3	1	-3	-2	-1	-1	0	2	2	-3
14	-3	-2	-1	2	4	6	2	-8	-6	-2	-1	0	1	3	5	4	1	0	-1	0	-2	-6	-5	-4
15	-2	-3	-3	-3	-1	0	0	0	1	1	0	3	6	6	5	5	5	5	3	5	4	4	4	3
16	0	5	6	7	4	5	6	6	6	6	7	15	22	37	54	64	47	32	24	16	4	3	0	-25
17	-39	-48	-64	-87	-105	-83	-88	-95	-81	-73	-68	-45	-34	-35	-35	-37	-33	-31	-42	-43	-38	-32	-29	-32
18	-29	-25	-24	-25	-21	-24	-32	-29	-24	-26	-24	-23	-27	-23	-16	-15	-17	-18	-19	-22	-22	-19	-16	-17
19	-18	-16	-15	-18	-20	-20	-20	-17	-13	-26	-33	-30	-27	-22	-18	-25	-29	-25	-23	-22	-28	-39	-37	-28
20	-20	-22	-23	-18	-16	-22	-28	-21	-13	-24	-19	-16	-18	-43	-48	-43	-26	-32	-25	-21	-23	-25	-22	-18
21	-15	-14	-13	-9	-6	-10	-11	-3	2	-8	-13	-14	-15	-23	-27	-31	-25	-31	-25	-25	-19	-19	-21	-20
22	-16	-13	-13	-15	-12	-12	-11	-6	-6	-6	-3	-1	-2	-3	-2	1	4	8	6	2	-1	0	0	0
23	3	1	1	1	0	0	0	0	1	1	-1	-4	-4	-3	-1	1	2	0	0	2	2	4	5	5
24	4	1	3	3	1	0	0	0	-2	-1	1	2	3	4	0	0	-1	-1	-2	-2	-6	-4	-3	-2
25	-2	-1	1	4	4	4	6	6	6	5	5	5	4	3	3	0	-1	-1	4	4	3	4	7	12
26	9	8	7	8	10	14	15	19	18	19	14	4	4	7	1	0	1	-5	-15	-18	-22	-20	-18	-17
27	-16	-15	-13	-11	-12	-12	-9	-3	-7	-21	-21	-11	-10	-10	-7	-9	-15	-16	-14	-21	-13	-12	-17	-20
28	-21	-21	-19	-18	-22	-24	-24	-32	-37	-37	-29	-24	-20	-23	-23	-23	-25	-25	-23	-29	-38	-44	-37	-31
29	-33	-29	-27	-23	-27	-32	-26	-17	-14	-11	-13	-17	-17	-23	-15	-15	-23	-15	-21	-24	-28	-22	-30	-31
30	-31	-30	-27	-21	-34	-31	-22	-21	-27	-27	-21	-19	-22	-22	-20	-15	-18	-18	-15	-16	-18	-14	-14	-21



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for April 1999.