

FEDERATION DES SERVICES D'ANALYSE DE DONNEES ASTRONOMIQUES ET GEOPHYSIQUES  
 FEDERATION OF ASTRONOMICAL AND GEOPHYSICAL DATA ANALYSIS SERVICES  
 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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**ISGI Publications Office Monthly Bulletin n°99 - 02 - February 1999**

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**PRELIMINARY REPORT ON RAPID VARIATIONS**

**FEBRUARY 1999**

**SSC - Storm Sudden Commencements**

**SFE - Solar Flare Effects**

17 07 09    B: COI\* ETT  
             C: BDV NAG\* MMB\* KAK KNY LNP HYB GNA\* CNB\*

18 02 46    A: SOD\* NUR\* WNG\* NGK\* CLF\* HRB NAG\* GCK\*  
             COI\* SPT\* KAK\* QUE KNY\* LNP HYB ETT GNA\* HER  
             B: BDV\* EBR\* CNB\*  
             C: MMB\*

28 13 52    A: CLF\*  
             B: HRB  
             C: WNG NGK BDV COI\*

09 0352-0400    HYB  
 09 0450-0500    HYB  
 23 0745-0756    NAG

REPORTING OBSERVATORIES (up to 5th of April 1999) :

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

**FIVE INTERNATIONAL QUIETEST DAYS**

**FIVE INTERNATIONAL MOST DISTURBED DAYS**

February 1999	1	2	26	9	20	18	19	12	11	17*
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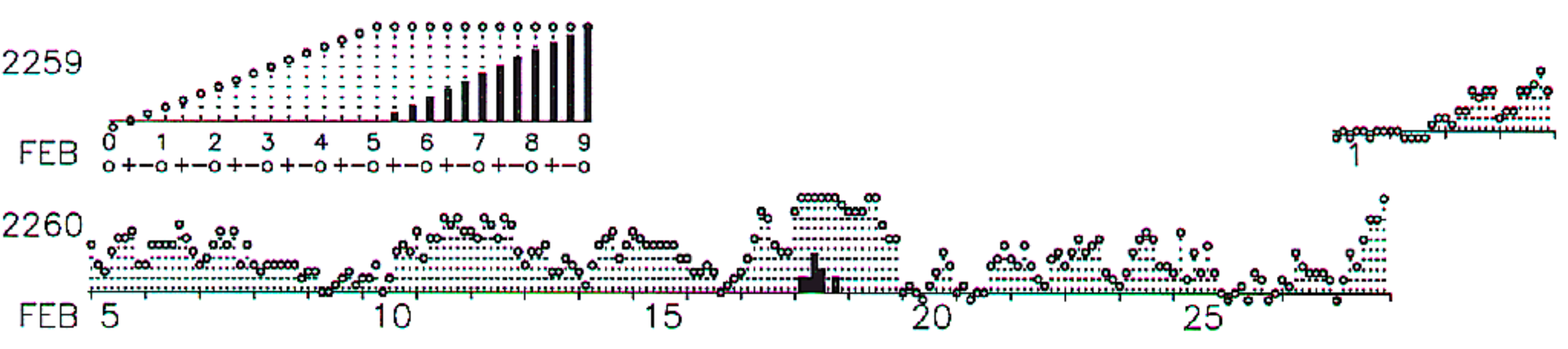
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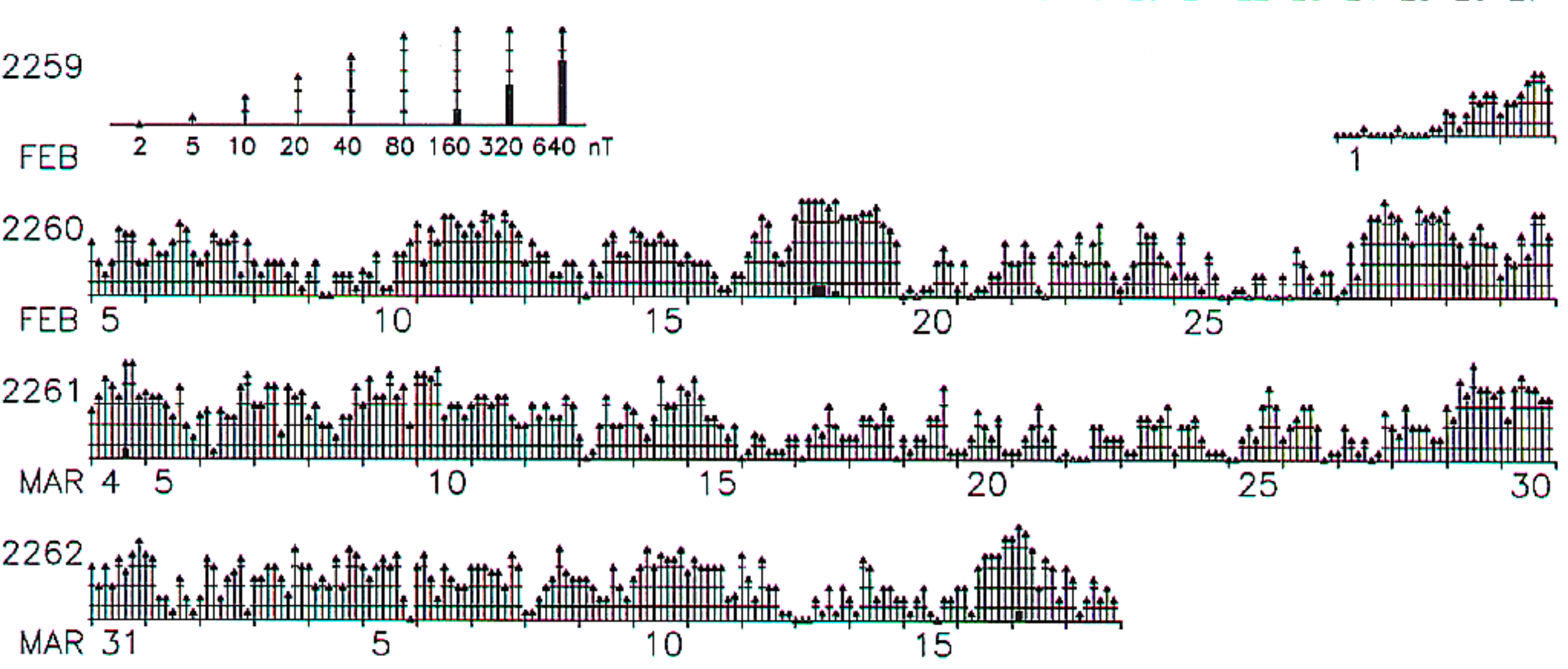


FEBRUARY 1999		Geomagnetic Indices (provisional)											Daily Average and Sum					
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	3	2	2	3	2	CC*	0o	2 0+	1 0o	2 0+	2 0+	1 0o	3 0+	2 0+	2	2-	0	0+
2	3	4	3	4	3	CC*	2 0+	3 0+	0o	1 0o	1 0o	1 0o	5 1-	6 1o	2	2+	1	2-
3	11	11	8	15	11	CC	6 1o	5 1-	8 1+	10 1+	19 2+	15 2o	17 2+	18 2+	12	13+	5	11+
4	20	19	12	27	20		6 1o	9 1+	9 1+	17 2+	18 2+	25 3-	34 3+	17 2+	17	17-	9	17-
5	21	22	14	29	21		23 3-	12 2-	9 1+	17 2+	27 3o	29 3o	34 3+	11 2-	20	19o	10	18o
6	25	23	17	31	24		11 2-	23 3-	21 3-	26 3-	26 3-	44 4-	31 3o	18 2+	25	21+	12	21o
7	23	20	21	22	22		11 2-	15 2o	25 3-	37 3+	25 3-	36 3+	13 2-	23 3-	23	20o	13	22-
8	12	8	11	9	10	CK	11 2-	10 1+	11 2-	13 2-	13 2-	12 2-	11 2-	7 1o	11	12+	6	12+
9	6	7	6	7	7	CC*	9 1+	10 1+	3 0+	2 0+	4 1-	6 1o	9 1+	4 1-	6	7o	3	6o
10	15	10	10	15	12	C	6 1o	6 1o	12 2-	3 0+	6 1o	17 2+	24 3-	17 2+	11	12+	6	11+
11	39	40	30	49	39		36 3+	16 2o	29 3o	33 3o	58 4o	46 4-	58 4o	39 3+	39	26+	20	27+
12	50	45	51	44	47		40 3+	29 3o	53 4o	49 4-	31 3o	54 4o	47 4-	20 2+	40	27o	24	30-
13	16	11	17	10	14	C	11 2-	18 2+	19 2+	22 3-	8 1+	8 1+	16 2o	13 2-	14	15+	8	15+
14	15	14	8	22	15		8 1+	5 1-	13 2-	26 3-	27 3o	39 3+	16 2o	21 3-	19	17+	8	14+
15	29	23	29	23	26		38 3+	31 3o	23 3-	22 3-	26 3-	23 3-	24 3-	14 2o	25	22-	15	23+
16	8	11	13	7	10	C	15 2o	9 1+	9 1+	13 2-	8 1+	3 0+	5 1-	7 1o	9	10-	4	8-
17	25	27	29	24	26		8 1+	15 2o	28 3o	67 4+	52 4o	25 3-	17 2+	17 2+	29	22o	17	22o
18	99	99	100	98	99		62 4+	124 6-	129 6-	214 7-	172 6o	95 5o	129 6-	72 5-	125	44-	80	47o
19	54	56	63	47	55		61 4+	65 4+	67 4+	87 5o	91 5o	47 4-	29 3o	27 3o	59	33-	40	36o
20	10	6	4	12	8	C *	3 0+	4 1-	2 0+	1 0o	4 1-	10 1+	19 2+	11 2-	7	7+	3	6o
21	7	10	6	11	9	CC	2 0+	4 1-	1 0o	2 0+	3 0+	13 2-	14 2o	25 3-	8	8o	4	7-
22	14	14	16	12	14		15 2o	11 2-	23 3-	11 2-	6 1o	4 1-	14 2o	17 2+	13	14o	6	12+
23	20	20	18	22	20		11 2-	19 2+	27 3o	19 2+	21 3-	32 3o	10 1+	7 1o	18	17+	9	16o
24	18	23	18	23	20		5 1-	8 1+	19 2+	29 3o	34 3+	29 3o	13 2-	13 2-	19	17o	9	17-
25	11	11	14	8	11	KK	8 1+	36 3+	7 1o	17 2+	8 1+	23 3-	8 1+	3 0+	14	14-	6	11o
26	4	5	4	5	4	CC*	0 0o	2 0+	4 1-	1 0o	9 1+	6 1o	0 0o	3 0+	3	4-	1	2o
27	9	9	11	8	9	CC	6 1o	4 1-	17 2+	13 2-	8 1+	8 1+	8 1+	7 1o	9	11-	4	8+
28	35	38	10	63	36		1 0o	6 1o	17 2+	12 2-	27 3o	58 4o	55 4o	99 5o	34	21o	17	20-

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



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

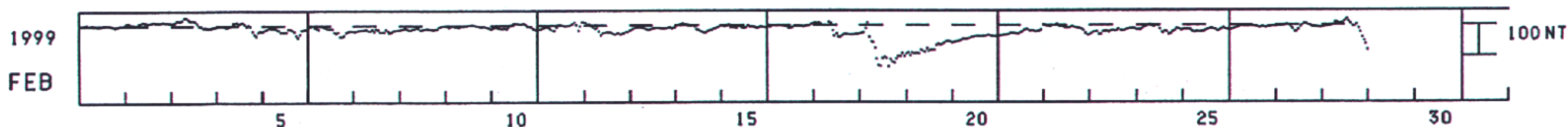




HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

FEBRUARY 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	
1	0	1	3	5	1	1	3	0	-2	-1	-1	2	3	4	4	2	0	-1	-4	-2	1	2	2	6
2	9	9	6	5	4	4	7	10	13	13	11	10	10	12	13	12	11	12	11	13	12	11	11	9
3	10	11	17	18	16	21	28	28	22	19	19	18	15	9	2	-1	-6	-6	-6	-8	-5	-5	-3	-4
4	-2	0	2	-1	-5	-3	-1	0	9	10	11	8	10	11	6	-2	4	-1	-15	-26	-32	-20	-15	-17
5	-13	-12	-9	-5	-7	-7	-7	-12	-13	-19	-21	-21	-19	-10	-10	-13	-18	-30	-37	-26	-14	-11	-11	-10
6	-4	-2	0	-6	-8	-11	-1	-1	-5	-8	-10	-9	-10	-19	-25	-20	-35	-34	-30	-23	-17	-16	-16	-16
7	-17	-15	-13	-13	-14	-14	-12	-16	-15	-12	-17	-10	-11	-20	-21	-19	-12	-16	-22	-20	-16	-14	-14	-13
8	-12	-9	-8	-10	-13	-13	-10	-10	-6	-8	-14	-11	-9	-10	-10	-9	-12	-12	-11	-9	-3	-1	2	1
9	-2	-5	-2	-1	-1	-4	-5	-1	-1	-2	0	1	3	4	4	1	-2	-2	-4	-2	-4	-6	-8	-9
10	-7	-6	-7	-8	-9	-10	-7	-9	-5	0	4	7	7	7	5	6	8	4	-2	-2	-3	-10	-13	-12
11	-11	-10	-8	-5	-3	-8	-11	-16	-15	-5	0	3	0	-2	-2	0	2	6	11	4	-15	-1	12	12
12	10	5	5	-2	-6	-9	-7	-17	-31	-25	-22	-19	-20	-23	-27	-28	-27	-24	-29	-27	-24	-20	-19	-15
13	-12	-9	-7	-5	-6	-5	-8	-10	-12	-13	-11	-10	-8	-7	-8	-8	-9	-9	-10	-8	-5	-10	-8	-5
14	0	3	5	8	6	4	3	-1	2	-3	-11	-14	-18	-20	-22	-22	-17	-14	-13	-10	-9	-5	-4	0
15	-1	-4	-1	3	-5	-6	-6	-7	-2	-3	-7	-7	-5	0	-4	-3	-3	-6	-7	-6	-3	-5	-6	-6
16	-4	-4	0	2	0	1	1	0	-1	-3	-8	-7	-5	-1	-1	-1	-2	-2	-3	-1	0	2	6	8
17	10	8	10	6	2	2	2	12	7	-15	-33	-27	-37	-38	-33	-29	-29	-28	-31	-31	-28	-29	-29	-27
18	-25	-22	-9	10	-37	-51	-54	-74	-109	-130	-132	-108	-102	-106	-134	-112	-119	-122	-109	-100	-100	-90	-100	-93
19	-89	-99	-88	-92	-90	-90	-92	-80	-84	-86	-75	-83	-79	-80	-80	-64	-59	-62	-61	-56	-51	-50	-52	-55
20	-54	-52	-51	-50	-48	-44	-43	-44	-42	-39	-37	-36	-35	-36	-35	-35	-36	-33	-31	-32	-34	-34	-34	-32
21	-32	-32	-31	-30	-31	-28	-25	-25	-26	-26	-26	-23	-19	-14	-12	-13	-17	-16	-17	-19	-18	-17	-13	3
22	-1	-1	-4	-3	1	0	6	-4	-3	-3	-7	-8	-8	-6	-4	-6	-7	-7	-10	-11	-16	-24	-30	-30
23	-27	-23	-20	-19	-28	-29	-19	-18	-18	-23	-18	-16	-17	-15	-12	-16	-18	-15	-13	-12	-9	-9	-10	-13
24	-14	-14	-9	-6	-3	1	3	-1	-4	0	-2	-12	-23	-25	-17	-21	-29	-27	-21	-15	-9	-11	-15	-14
25	-12	-11	-13	-13	-20	-22	-20	-20	-22	-20	-19	-15	-13	-11	-9	-12	-13	-17	-16	-11	-8	-11	-13	-14
26	-13	-12	-9	-8	-5	-2	-3	-3	-3	-4	-4	-4	-4	-4	-6	-7	-5	-5	-7	-5	-4	-3	-3	-4
27	-4	-1	-2	-2	1	4	2	-6	-12	-21	-19	-13	-5	0	5	5	1	-2	-6	-6	-6	-7	-7	-8
28	-5	-4	-3	-3	-2	2	9	10	5	7	7	13	20	12	6	-4	-3	3	-9	-22	-40	-49	-60	-80



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