

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

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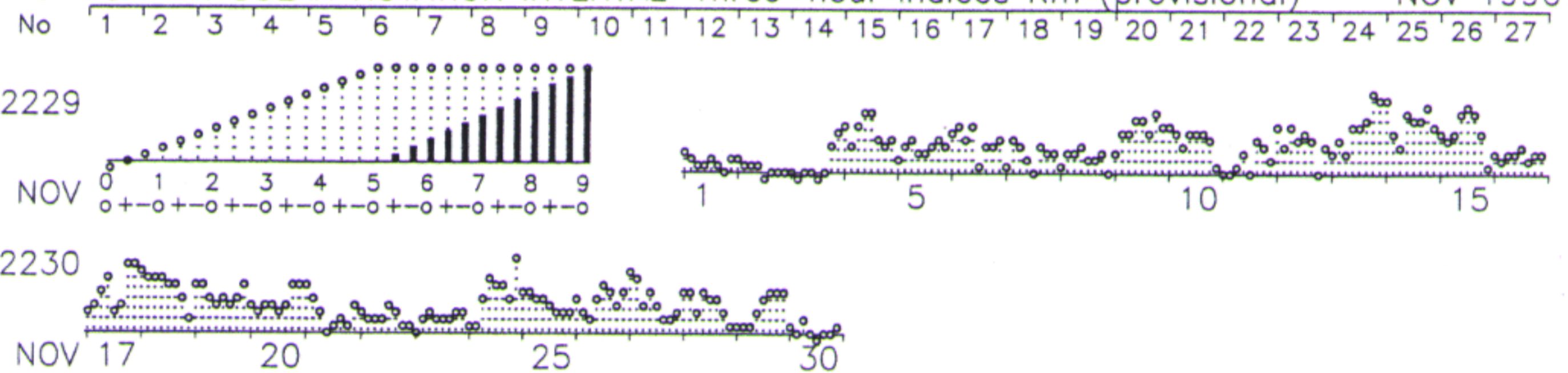
PRELIMINARY REPORT ON RAPID VARIATIONS		NOVEMBER 1996	
SSC - Storm Sudden Commencements		SFE - Solar Flare Effects	
11 15 27	A : HRB COI BJI B : SOD* NUR* WNG DOU TEN C : DOB BDV* CLF* NAG EBR SPT QUE HYB ETT	11 1527	NGK
13 13 00	A : HRB* COI TEN B : SOD* NUR* DOU SPT QUE AMS CZT C : BDV* NAG EBR* LNP HYB ETT		
REPORTING OBSERVATORIES (up to the 3rd of January 1997) :			
SOD DOB NUR WNG NGK DOU BDV CLF HRD NAG MMB EBR COI BJI SPT FRD KAK KNY QUE TEN LNP HYB ETT HER CNB AMS CZT PAF DRV			

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
<b>November 1996</b>	30	2	3	1	23	14	13*	15*	18*	17*

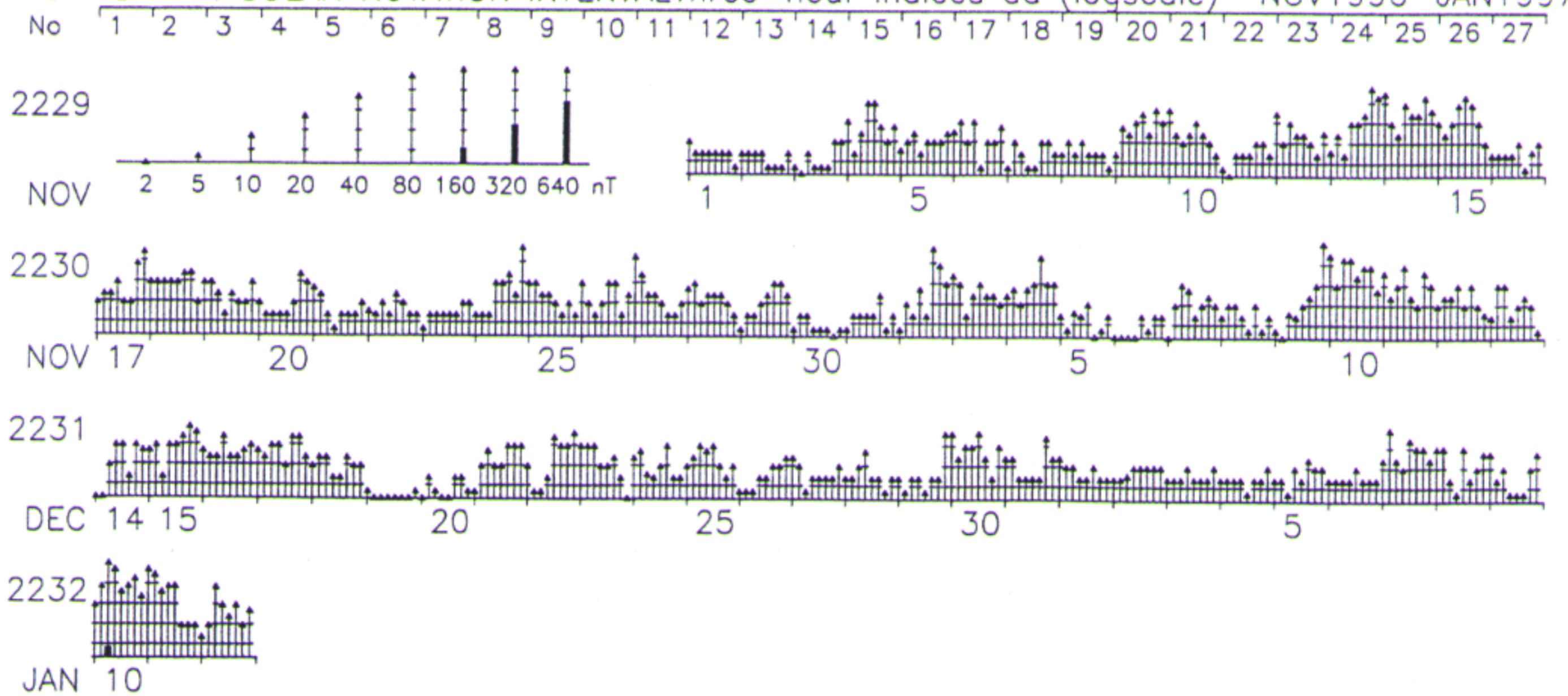
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NOVEMBER 1996		Geomagnetic Indices (provisional)												Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8	Am	Σ Km	Ap	Σ Kp
1	9	7	9	7	8	CC*	10 1+	7 1o	5 1-	4 1-	6 1o	5 1-	3 0+	6 1o	6	5o	3	7-
2	8	6	8	6	7	CC*	6 1o	5 1-	4 1-	4 1-	1 0o	2 0+	2 0+	3 0+	3	3+	2	4o
3	9	5	5	9	7	CK*	2 0+	0 0o	2 0+	3 0+	1 0o	3 0+	11 2-	18 2+	5	4-	2	5+
4	25	23	24	25	24		23 3-	11 2-	22 3-	36 3+	37 3+	15 2o	11 2-	16 2o	21	19-	10	19+
5	15	9	11	13	12	C	7 1o	12 2-	15 2o	10 1+	10 1+	13 2-	16 2o	11 2-	12	14-	6	13-
6	20	12	19	12	16	C	19 2+	21 3-	16 2o	22 3-	5 1-	13 2-	11 2-	16 2o	15	16-	8	16-
7	10	7	8	9	8	CC	5 1-	15 2o	13 2-	7 1o	3 0+	11 2-	8 1+	8 1+	9	9-	4	10o
8	8	9	10	7	9	CC	5 1-	10 1+	8 1+	11 2-	7 1o	7 1o	10 1+	2 0+	8	8-	4	9-
9	26	18	17	27	22		8 1+	18 2+	17 2+	30 3o	27 3o	18 2+	34 3+	21 3-	22	19o	11	20+
10	20	15	20	15	18		26 3-	20 2+	12 2-	18 2+	18 2+	17 2+	14 2o	5 1-	16	16+	9	16+
11	9	7	6	10	8	CK	3 0+	3 0+	5 1-	8 1+	2 0+	16 2o	13 2-	7 1o	7	8-	4	8-
12	21	13	21	13	17		22 3-	11 2-	26 3-	15 2o	17 2+	14 2o	3 0+	11 2-	15	15+	8	15+
13	33	30	14	49	32		8 1+	15 2o	8 1+	21 3-	23 3-	31 3o	66 4+	53 4o	28	21o	16	21+
14	48	30	38	40	39		51 4o	17 2+	12 2-	38 3+	32 3o	28 3o	47 4-	21 3-	31	26+	21	24-
15	36	27	27	35	31		20 2+	14 2o	17 2+	38 3+	46 4-	39 3+	19 2+	5 1-	25	22+	15	20o
16	10	8	8	10	9	C	8 1+	7 1o	9 1+	10 1+	13 2-	7 1o	8 1+	9 1+	9	10-	5	10+
17	32	19	17	34	26		10 1+	11 2-	18 2+	28 3o	10 1+	11 2-	50 4-	43 4-	23	20o	13	19-
18	27	22	24	25	25		34 3+	32 3o	30 3o	29 3o	24 3-	26 3-	16 2o	6 1o	25	22+	14	21-
19	21	13	18	16	17		22 3-	23 3-	15 2o	11 2-	15 2o	12 2-	14 2o	21 3-	17	18o	10	17+
20	16	12	9	19	14		11 2-	9 1+	11 2-	13 2-	8 1+	12 2-	24 3-	24 3-	14	16-	8	15-
21	13	8	12	9	11	CK	21 3-	14 2o	9 1+	3 0+	5 1-	7 1o	5 1-	13 2-	10	11-	6	10+
22	11	9	9	11	10	CC	8 1+	6 1o	7 1o	7 1o	11 2-	9 1+	4 1-	4 1-	7	9-	4	9-
23	9	8	7	10	9	CC*	2 0+	6 1o	8 1+	7 1o	7 1o	6 1o	10 1+	9 1+	7	8-	4	8+
24	25	25	12	38	25		5 1-	5 1-	14 2o	27 3o	23 3-	26 3-	16 2o	56 4o	22	17o	12	18-
25	15	15	20	10	15		19 2+	18 2+	15 2o	14 2o	11 2-	9 1+	8 1+	10 1+	13	14-	7	14+
26	14	18	14	18	16		15 2o	9 1+	6 1o	14 2o	26 3-	19 2+	11 2-	17 2+	15	14-	7	15+
27	19	22	31	10	20		40 3+	32 3o	13 2-	19 2+	11 2-	6 1o	6 1o	9 1+	17	16o	10	15+
28	18	13	18	13	16	C	19 2+	18 2+	8 1+	19 2+	14 2o	14 2o	9 1+	5 1-	13	14+	7	14+
29	14	14	8	20	14	C	5 1-	5 1-	5 1-	9 1+	15 2o	19 2+	20 2+	17 2+	12	10+	5	12+
30	6	5	7	4	5	CC*	5 1-	3 0+	7 1o	3 0+	1 0o	3 0+	2 0+	4 1-	4	3-	2	4-

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) NOV 1996



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV 1996 - JAN 1997

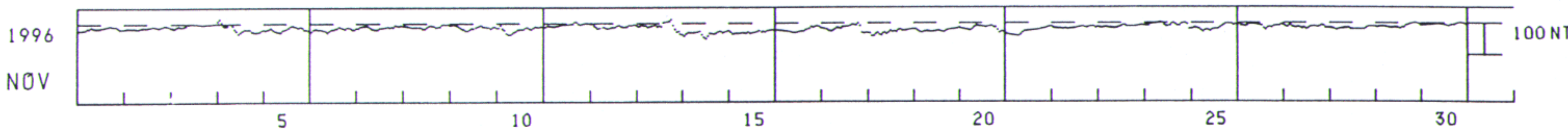


Dst monthly table of hourly indices - November 1996

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

NOVEMBER 1996

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	-23	-22	-20	-20	-15	-15	-12	-14	-15	-16	-15	-14	-13	-12	-10	-10	-8	-9	-10	-10	-14	-17	-17	-17	
2	-16	-15	-15	-15	-15	-16	-17	-15	-13	-13	-13	-14	-13	-12	-10	-12	-12	-13	-12	-9	-8	-9	-10	-13	
3	-16	-15	-11	-10	-11	-11	-10	-8	-4	-1	-1	-1	-3	-4	-4	-5	-6	-3	-3	-4	-3	-1	0	8	
4	13	3	-8	-9	-7	-2	-1	-8	-18	-25	-33	-28	-25	-19	-19	-21	-21	-26	-28	-29	-29	-27	-22	-20	
5	-22	-20	-18	-16	-19	-24	-27	-29	-29	-22	-19	-17	-13	-9	-7	-10	-11	-13	-12	-13	-20	-21	-23	-26	
6	-27	-21	-18	-19	-21	-21	-23	-25	-28	-25	-21	-20	-18	-15	-12	-13	-15	-18	-14	-14	-15	-21	-19	-16	
7	-15	-12	-10	-9	-9	-10	-13	-17	-20	-20	-19	-16	-15	-14	-13	-12	-13	-12	-13	-8	-8	-9	-7	-9	
8	-9	-10	-12	-14	-13	-14	-13	-14	-14	-18	-18	-14	-10	-7	-9	-10	-13	-12	-11	-6	-4	-5	-4	-7	
9	-8	-6	-7	-10	-14	-18	-21	-25	-25	-20	-16	-17	-13	-12	-10	-8	-11	-11	-13	-14	-18	-13	-11	-15	
10	-16	-8	-17	-23	-33	-37	-37	-32	-28	-27	-23	-20	-19	-20	-15	-14	-18	-19	-16	-12	-13	-13	-12	-12	
11	-13	-10	-10	-11	-12	-11	-10	-10	-7	-6	-5	-6	-6	-4	-3	3	3	-3	-5	-3	-1	-1	-1	-4	
12	-4	-9	-14	-17	-15	-15	-14	-16	-18	-16	-16	-13	-13	-10	-7	-11	-13	-13	-11	-8	-7	-7	-6	-10	
13	-12	-10	-8	-9	-9	-13	-12	-10	-9	-8	-11	-10	-12	1	3	4	5	12	-7	-19	-29	-27	-35	-36	
14	-41	-35	-31	-31	-30	-31	-30	-28	-26	-36	-45	-49	-41	-32	-33	-34	-33	-29	-26	-27	-31	-29	-26	-25	
15	-29	-34	-33	-32	-32	-32	-30	-31	-33	-29	-32	-30	-31	-29	-27	-24	-28	-27	-28	-25	-25	-22	-22	-21	
16	-23	-25	-24	-24	-26	-26	-26	-29	-30	-31	-30	-29	-27	-27	-26	-22	-19	-18	-12	-13	-12	-9	-12	-15	
17	-17	-17	-20	-25	-27	-24	-19	-15	-16	-18	-14	-11	-12	-12	-9	-5	-6	-8	0	-9	-30	-32	-31	-31	
18	-33	-41	-41	-34	-31	-38	-39	-32	-31	-34	-30	-25	-29	-26	-28	-23	-21	-24	-24	-24	-22	-21	-20	-19	
19	-21	-25	-29	-31	-28	-26	-27	-27	-28	-29	-27	-27	-24	-26	-29	-28	-25	-23	-21	-21	-19	-18	-17	-16	
20	-18	-19	-19	-20	-22	-24	-20	-13	-10	-10	-11	-11	-12	-13	-12	-10	-9	-13	-14	-22	-31	-27	-28	-30	
21	-34	-38	-39	-39	-39	-42	-41	-37	-31	-27	-26	-25	-24	-24	-22	-22	-22	-21	-18	-17	-16	-14	-11	-11	
22	-15	-18	-18	-18	-18	-20	-18	-19	-20	-18	-18	-17	-15	-14	-13	-11	-14	-15	-13	-11	-11	-12	-15	-14	
23	-16	-15	-15	-14	-15	-15	-16	-18	-18	-16	-14	-11	-7	-8	-11	-12	-11	-11	-12	-12	-10	-7	-7	-9	
24	-10	-9	-5	-4	-3	-4	-2	2	-1	-7	-12	-12	-9	-3	0	-6	-10	-9	-4	-1	-2	-6	-20	-21	
25	-17	-15	-18	-21	-25	-29	-25	-23	-24	-26	-23	-21	-20	-20	-16	-12	-7	-3	-3	-3	-4	-7	-5	-5	
26	-6	-10	-10	-12	-10	-6	-6	-6	-6	-5	-8	-8	-9	-17	-22	-15	-13	-15	-12	-9	-10	-9	-6	-8	
27	-12	-13	-10	-8	-14	-16	-15	-13	-15	-17	-15	-21	-17	-14	-12	-11	-12	-13	-11	-8	-10	-15	-15	-15	
28	-17	-17	-19	-22	-20	-17	-17	-17	-16	-16	-19	-20	-20	-20	-21	-21	-20	-20	-16	-12	-11	-12	-12	-12	
29	-13	-12	-12	-11	-11	-14	-14	-16	-16	-13	-13	-15	-17	-14	-13	-8	-5	-4	-2	-2	1	-2	-3	-8	
30	-8	-7	-6	-6	-5	-5	-4	-4	-3	-3	-4	-6	-8	-9	-8	-6	-5	-4	-2	1	1	-2	-4	-1	



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for November 1996. Beginning October 1994, the observatory data include realtime INTERMAGNET data.