

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.

Ce Bulletin est adressé gracieusement aux Scientifiques intéressés, grâce à une dotation du FAGS et au soutien du laboratoire d'accueil, le CETP, et des organismes français de Recherche Scientifique (CNRS, INSU, BCMT).

Nous remercions aussi tout particulièrement les collaborateurs du Bulletin (cités ci-dessous) qui nous fournissent les données à diffuser dans des délais aussi brefs que possible.

This Bulletin is freely offered to interested Scientists thanks to a dotation from FAGS, and to the support of the hosting laboratory CETP and of French Organisations of Scientific Research (CNRS, INSU, BCMT).

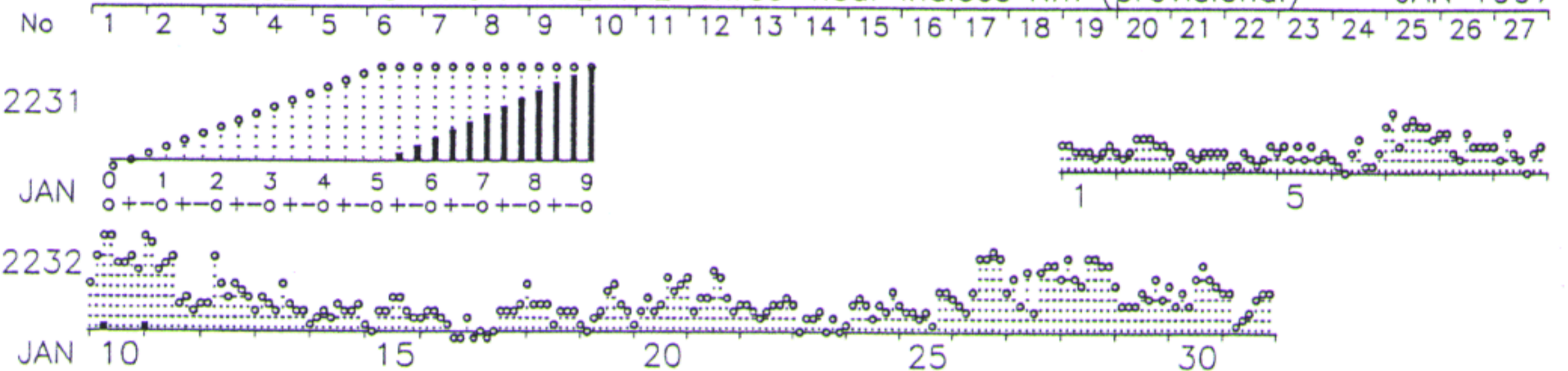
Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.

PRELIMINARY REPORT ON RAPID VARIATIONS		JANUARY 1997
<p style="text-align: center;">SSC - Storm Sudden Commencements</p> <p>10 01 04 A : HRB COI TEN B : WNG NAG MMB* LNP PAF* C : NGK BDV CLF EBR SPT QUE HYB ETT AMS CZT</p> <p>11 01 16 A : HRB* HTY* KNY* HYB ETT B : WNG* CLF NAG* MMB* KAK* TEN C : EBR* Si : SPT</p>	<p style="text-align: center;">SFE - Solar Flare Effects</p> <p>24 0328-0350 TEN 26 1631-1638 TEN 27 0722-0732 BDV</p>	
<p>REPORTING OBSERVATORIES (<i>up to the 7th of February 1997</i>) :</p> <p>SOD NUR WNG NGK BDV CLF HRB NAG GCK MMB EBR COI SPT FRD KAK HTY KNY QUE TEN LNP HYB ETT HER CNB AMS CZT PAF DRV</p>		

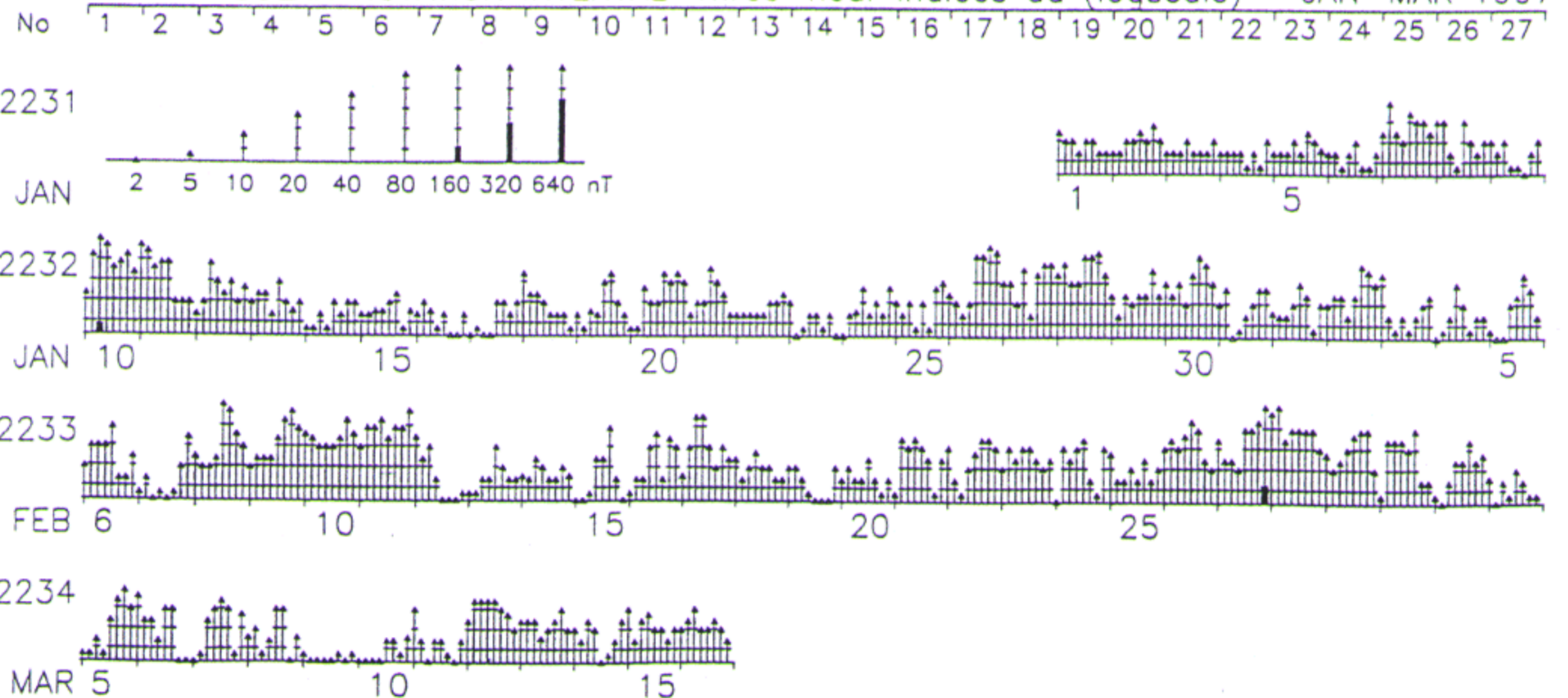
	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
January 1997	16	6	17	4	3	10	28	26*	11*	27*

JANUARY 1997						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	11	11	12	10	11	CC	12 2-	11 2-	9 1+	10 1+	10 1+	7 1o	8 1+	13 2-	10	11+	4	9+
2	14	11	10	15	13	CC	8 1+	7 1o	10 1+	14 2o	14 2o	16 2o	12 2-	11 2-	12	13o	5	11+
3	9	9	9	9	9	CC*	9 1+	5 1-	4 1-	9 1+	6 1o	10 1+	9 1+	9 1+	8	9o	4	7o
4	7	8	8	8	8	CC*	8 1+	5 1-	5 1-	10 1+	6 1o	5 1-	6 1o	11 2-	7	8+	4	7-
5	8	12	9	11	10	CC	9 1+	11 2-	7 1o	12 2-	6 1o	13 2-	7 1o	8 1+	9	11-	4	7+
6	6	9	7	8	7	CK*	6 1o	5 1-	3 0+	8 1+	14 2o	5 1-	5 1-	8 1+	7	8o	3	5o
7	24	22	22	24	23		24 3-	34 3+	13 2-	26 3-	27 3o	22 3-	24 3-	16 2o	23	21-	11	20o
8	17	12	15	14	15		20 2+	19 2+	8 1+	6 1o	18 2+	12 2-	12 2-	12 2-	13	14+	8	15-
9	10	6	9	7	8	C	12 2-	7 1o	18 2+	10 1+	6 1o	3 0+	10 1+	12 2-	10	11-	5	11o
10	46	70	73	44	59		21 3-	53 4o	108 5+	93 5o	41 4-	44 4-	54 4o	35 3+	56	32-	32	32o
11	27	51	58	21	39		113 5+	76 5-	34 3+	50 4-	51 4o	11 2-	16 2o	10 1+	45	26o	18	23o
12	23	17	22	18	20		12 2-	12 2-	57 4o	23 3-	14 2o	23 3-	17 2+	15 2o	22	19o	12	20o
13	14	13	13	14	14	C	8 1+	16 2o	12 2-	10 1+	23 3-	11 2-	10 1+	10 1+	13	13+	7	14o
14	7	10	6	11	8	CC	5 1-	6 1o	8 1+	7 1o	11 2-	10 1+	10 1+	11 2-	9	10o	4	9o
15	6	13	9	11	10	CC	4 1-	3 0+	10 1+	8 1+	14 2o	16 2o	8 1+	7 1o	9	10o	4	8+
16	5	9	9	5	7	CC*	7 1o	8 1+	9 1+	6 1o	5 1-	0 0o	1 0o	6 1o	5	6+	3	5o
17	5	9	3	11	7	CC*	0 0o	2 0+	0 0o	2 0+	9 1+	10 1+	9 1+	13 2-	6	6+	2	4o
18	12	14	19	7	13	KC	22 3-	12 2-	11 2-	11 2-	5 1-	8 1+	9 1+	8 1+	11	12+	5	10o
19	11	15	8	19	13	KK	5 1-	3 0+	6 1o	9 1+	20 2+	25 3-	11 2-	8 1+	11	11+	6	10+
20	16	19	11	25	18		5 1-	8 1+	15 2o	10 1+	13 2-	29 3o	19 2+	22 3-	15	15o	7	13-
21	14	22	14	22	18		27 3o	8 1+	14 2o	14 2o	38 3+	31 3o	16 2o	9 1+	20	18o	10	18-
22	10	10	8	12	10	CK	11 2-	13 2-	8 1+	6 1o	8 1+	13 2-	11 2-	14 2o	11	12+	6	12o
23	7	6	7	6	6	CC	13 2-	3 0+	6 1o	6 1o	9 1+	3 0+	6 1o	2 0+	6	7o	4	7-
24	9	12	10	12	11	CC	4 1-	11 2-	14 2o	13 2-	7 1o	13 2-	10 1+	20 2+	12	12+	4	8o
25	14	10	9	15	12	CC	11 2-	8 1+	8 1+	6 1o	10 1+	5 1-	18 2+	20 2+	11	12o	6	12o
26	46	32	12	66	39		16 2o	12 2-	9 1+	17 2+	59 4o	55 4o	63 4+	58 4o	36	21-	18	23o
27	30	27	25	33	29		20 2+	27 3o	12 2-	36 3+	10 1+	34 3+	42 4-	47 4-	29	22+	16	23+
28	43	43	32	54	43		29 3o	53 4o	27 3o	23 3-	56 4o	52 4o	48 4-	41 4-	41	28o	24	29+
29	19	15	13	21	17		26 3-	12 2-	11 2-	13 2-	17 2+	14 2o	28 3o	15 2o	17	17o	9	17+
30	31	28	19	40	30		25 3-	12 2-	18 2+	11 2-	27 3o	43 4-	32 3o	25 3-	24	21-	15	23+
31	17	8	10	15	12	C	17 2+	17 2+	4 1-	6 1o	8 1+	15 2o	17 2+	17 2+	13	14+	8	14+

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) JAN 1997



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

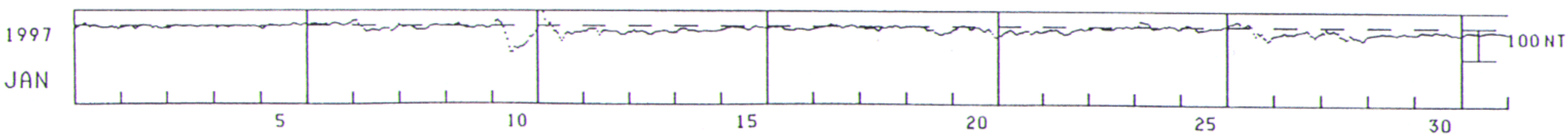


Dst monthly table of hourly indices - January 1997

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

JANUARY 1997

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	-8	-3	2	4	8	7	0	-3	-1	3	1	-2	-3	-5	-5	-5	-5	-5	-4	-2	-6	-4	-10	-6	
2	-6	-4	-1	-2	0	0	-6	-9	-6	-1	3	3	3	1	2	1	-6	-4	-2	-5	-7	-7	-6	-6	
3	-8	-5	-2	2	3	2	0	-1	-1	-1	0	1	1	-1	-1	-4	-1	0	1	-1	-2	0	1	1	
4	-1	-5	-1	0	0	-1	-2	-3	-2	-2	1	1	2	2	1	-1	-1	0	-1	0	0	-1	-4	-6	
5	-9	-7	-3	2	5	4	4	4	1	-1	0	4	0	0	1	4	7	7	5	3	1	6	8	5	
6	5	5	7	9	8	8	6	6	6	7	4	4	7	9	9	8	6	4	2	3	6	8	10	15	
7	19	19	7	-2	-4	-11	-18	-16	-15	-11	-13	-13	-14	-15	-9	-7	-7	-8	-8	-15	-13	-9	-3	5	
8	1	-3	-2	-2	0	-2	-5	-8	-11	-12	-12	-12	-12	-9	-5	1	1	3	5	4	3	2	4	4	
9	4	6	4	2	6	8	10	4	-2	-3	-5	-4	-6	-5	-5	-2	0	-1	0	-1	-6	-6	-3	0	
10	1	16	21	14	10	-6	-24	-44	-68	-84	-83	-69	-70	-74	-67	-66	-63	-56	-49	-35	-34	-28	-18	-12	
11	0	49	44	20	-2	9	9	-4	-15	-18	-24	-39	-47	-40	-27	-21	-23	-26	-24	-19	-21	-21	-19	-16	
12	-17	-16	-10	-9	-10	-10	-9	-17	-28	-20	-15	-14	-16	-15	-16	-17	-16	-18	-22	-27	-27	-26	-22	-18	
13	-19	-17	-14	-17	-18	-18	-16	-18	-21	-25	-26	-27	-23	-17	-17	-17	-16	-14	-14	-16	-19	-20	-19	-20	
14	-19	-14	-9	-7	-8	-10	-14	-14	-13	-13	-15	-18	-18	-16	-13	-13	-15	-16	-16	-15	-16	-15	-13	-11	
15	-11	-10	-5	-5	-3	-2	-3	-3	-4	-5	-6	-7	-9	-11	-10	-4	-1	0	-2	-3	-3	-3	-6	-6	
16	-5	-4	-1	-3	-3	-2	-1	-5	-10	-12	-12	-12	-12	-11	-8	-7	-7	-7	-7	-9	-11	-12	-10	-8	
17	-7	-5	-3	-2	-2	0	2	6	9	7	5	5	1	0	-3	-3	0	0	3	6	4	1	-3	-3	
18	-1	-3	-8	-7	-6	-5	-5	-8	-12	-13	-8	-3	-4	-3	0	0	-1	3	3	1	-3	-4	-2	1	
19	0	1	1	1	1	1	0	-1	-2	-5	-12	-12	-10	-10	-17	-21	-24	-26	-24	-21	-21	-21	-18	-12	
20	-10	-7	-4	0	2	3	0	-1	-7	-9	-7	-3	-3	-3	-7	-13	-16	-10	-8	-13	-23	-32	-34	-28	
21	-28	-29	-23	-18	-15	-12	-11	-15	-23	-24	-20	-17	-18	-14	-14	-13	-22	-22	-17	-14	-14	-17	-18	-16	
22	-15	-14	-11	-9	-11	-9	-10	-13	-17	-21	-24	-25	-23	-20	-14	-11	-10	-8	-8	-6	-7	-9	-8	-6	
23	-7	-3	0	1	0	-2	-5	-8	-7	-7	-7	-7	-5	-2	0	1	2	-1	2	3	0	-2	-1	3	
24	3	7	17	18	15	14	13	8	-3	-5	-4	-3	-3	-1	2	4	2	5	4	2	1	-3	-7	-5	
25	-2	4	8	8	6	1	-1	-7	-11	-11	-9	-9	-10	-8	-4	-3	-4	-4	-3	-3	-4	0	4	8	
26	9	11	12	15	18	17	11	4	5	8	12	10	3	-16	-27	-16	-23	-18	-31	-35	-44	-40	-31	-27	
27	-27	-25	-23	-23	-18	-17	-22	-21	-20	-22	-19	-16	-15	-13	-12	-11	-8	-14	-22	-25	-30	-25	-20	-17	
28	-13	-16	-7	-11	-14	-11	-10	-14	-15	-27	-29	-30	-37	-34	-23	-26	-32	-31	-36	-36	-41	-40	-33	-27	
29	-24	-25	-23	-23	-22	-19	-18	-17	-19	-21	-20	-20	-21	-23	-24	-21	-21	-18	-15	-19	-20	-21	-21	-23	
30	-23	-19	-16	-13	-15	-15	-16	-15	-17	-14	-12	-14	-15	-15	-16	-12	-17	-18	-23	-22	-20	-24	-25	-23	
31	-21	-16	-13	-13	-14	-16	-16	-16	-18	-17	-15	-14	-13	-13	-12	-12	-12	-13	-14	-13	-14	-15	-15	-17	



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for January 1997. Beginning October 1994, the observatory data include realtime INTERMAGNET data.

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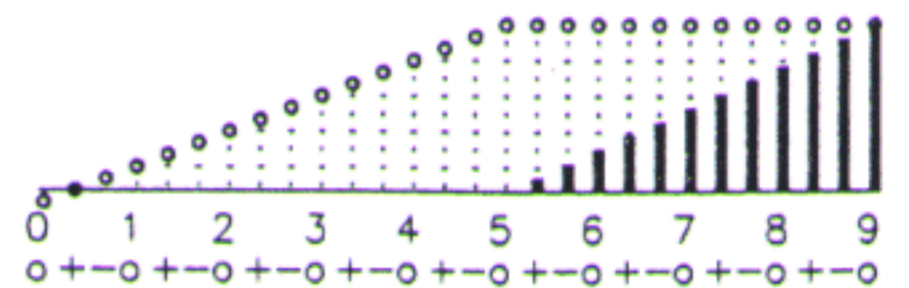
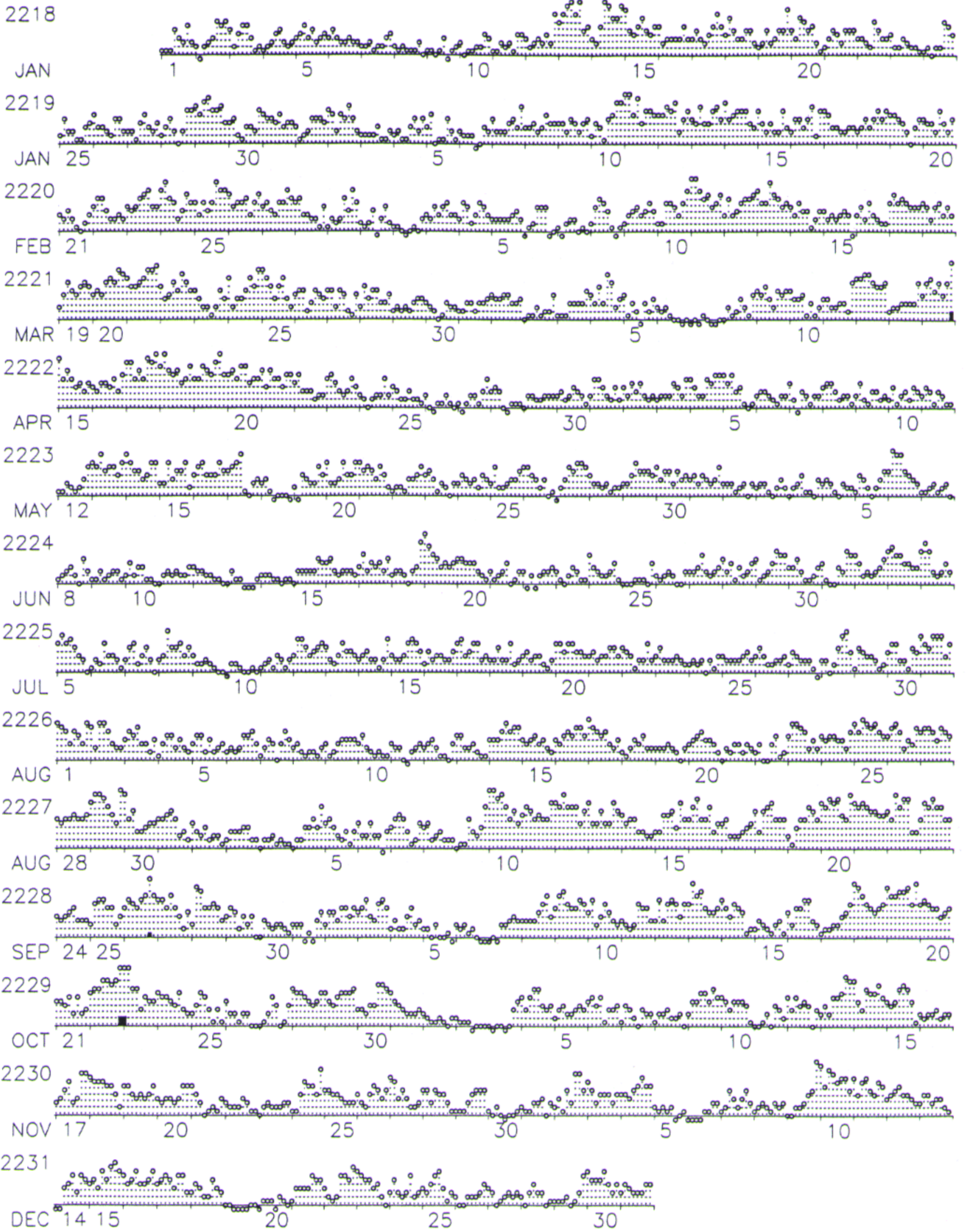
ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JAN-DEC 1996
 NO 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27'



PLANETARY GEOMAGNETIC ACTIVITY – MUSICAL DIAGRAM OF aa 1996

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ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) JAN-DEC 1996
 No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27



PLANETARY GEOMAGNETIC ACTIVITY - MUSICAL DIAGRAM OF Km 1996