

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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C O N T E N T S		
Rapid Variations	- provisional determination of ssc and sfe	July 1996
Classification of days	- five international quietest days and most disturbed days	July 1996
aa	- hemispheric N, S, daily values and planetary half day and daily values	July 1996
	- musical diagram of aa (latest values)	July 1996 up to Sept. 15th 1996
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	July 1996
am, Km	- three hour indices values musical diagram of Km	July 1996
Am, ΣKm	- daily values	July 1996
Ap, ΣKp	- daily values	July 1996
Dst	- monthly tables of hourly indices	July 1996

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.

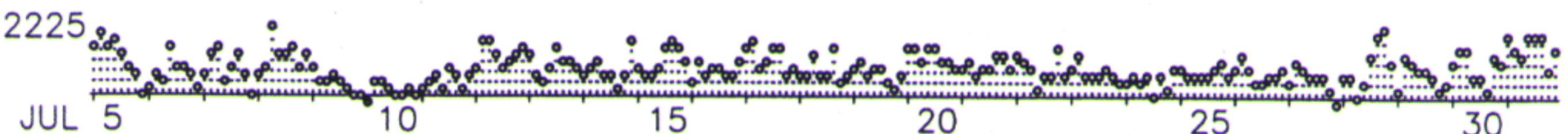
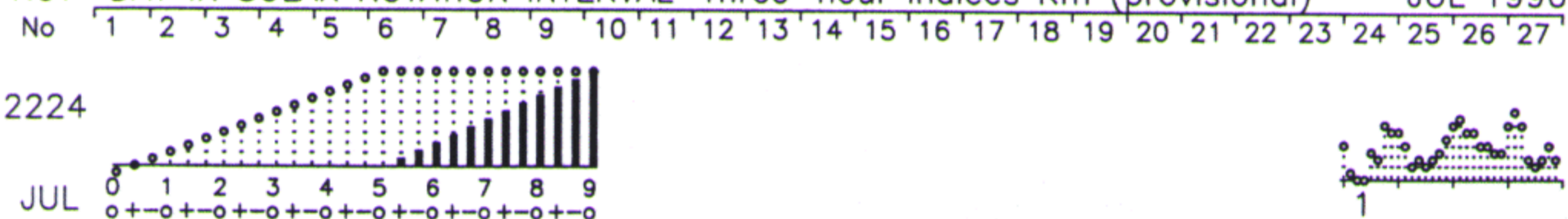
*This Bulletin is freely offered to interested Scientists thanks to a dotation from FAGS, and to the support of the hosting laboratory CETP and of French Organisations of Scientific Research (CNRS, INSU, BCMT).
 Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.*

PRELIMINARY REPORT ON RAPID VARIATIONS		JULY 1996
SSC - Storm Sudden Commencements	SFE - Solar Flare Effects	
01 13 20 B : WNG HRB BJI SPT C : NGK BDV	09 0908-0954 NGK BDV+ MMB+ KAK+ HTY+ KNY+ HYB ETT (si: NAG* SPT QUE)	
28 13 07 A : HRB BJI B : WNG NAG SPT QUE LNP C : NGK BDV* GCK HYB ETT	10 1049-1059 BDV 25 1025-1050 NGK	
REPORTING OBSERVATORIES (up to the 2nd of September 1996) :		
SOD DOB NUR WNG NGK BDV CLF HRD NAG GCK MMB EBR COI BJI SPT FRD KAK HTY KNY QUE LNP HYB ETT HER CNB		

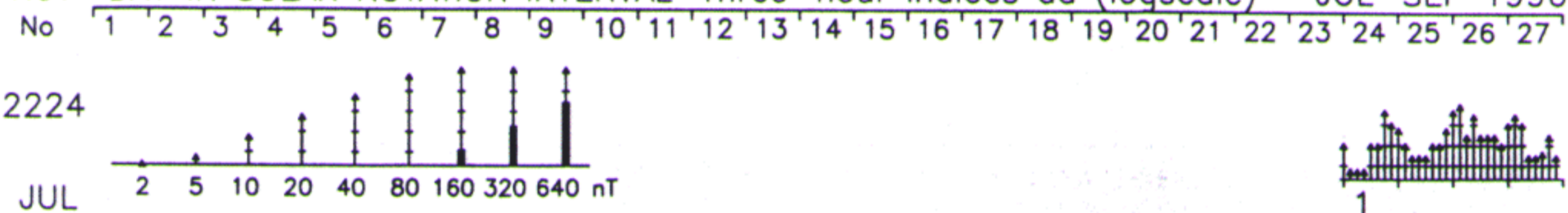
	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
July 1996	10	9	27	11	24	31*	8*	28*	3*	5*

JULY 1996		Geomagnetic Indices (provisional)												Daily Average and Sum				
	aa				quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp		
	N	S	am	pm		D	1	2	3	4	5	6	7	8				
1	20	8	7	21	14	K	14 20	5 1-	3 0+	2 0+	12 2-	9 1+	29 30	25 3-	12	120	7	11+
2	17	8	12	13	13	C	25 3-	15 20	7 10	9 1+	6 10	10 1+	11 2-	19 2+	13	13+	6	12+
3	28	19	33	15	24		29 30	36 3+	24 3-	24 3-	14 20	14 20	13 2-	11 2-	21	190	10	180
4	17	15	22	10	16		29 30	42 4-	29 30	10 1+	6 10	9 1+	15 20	10 1+	19	17-	8	150
5	25	20	26	18	22		25 3-	39 3+	21 3-	27 30	19 2+	12 2-	8 1+	3 0+	19	17+	10	17-
6	12	12	12	11	12	C	5 1-	9 1+	7 10	23 3-	11 2-	11 2-	8 1+	4 1-	10	110	5	10-
7	21	11	15	18	16		10 1+	19 2+	26 3-	7 10	13 2-	20 2+	10 1+	2 0+	13	130	8	150
8	23	22	21	24	22		9 1+	12 2-	41 4-	18 2+	20 2+	25 3-	11 2-	18 2+	19	180	10	19-
9	11	4	9	6	7	CK *	12 2-	7 10	6 10	8 1+	6 10	4 1-	2 0+	3 0+	6	7+	3	6+
10	7	2	4	5	5	CC *	1 00	7 10	6 10	5 1-	2 0+	2 0+	5 1-	3 0+	4	4+	2	40
11	11	6	6	11	8	CK *	4 1-	7 10	9 1+	4 1-	12 2-	8 1+	4 1-	9 1+	7	9-	4	70
12	23	17	21	19	20		11 2-	27 30	30 30	17 2+	12 2-	14 20	20 2+	23 3-	19	19-	8	16+
13	16	18	12	21	17		19 2+	9 1+	7 10	12 2-	25 3-	15 20	14 20	12 2-	14	15-	7	13+
14	18	9	12	15	13	K	10 1+	13 2-	16 20	9 1+	10 1+	5 1-	10 1+	27 30	13	13-	6	120
15	25	14	11	28	20		12 2-	10 1+	9 1+	11 2-	21 3-	31 30	21 3-	14 20	16	16+	8	16-
16	14	7	9	11	10	C	7 10	15 20	8 1+	13 2-	11 2-	9 1+	10 1+	14 20	11	12+	5	11-
17	19	18	16	20	18		26 3-	28 30	13 2-	15 20	22 3-	23 3-	8 1+	11 2-	18	18-	8	16+
18	16	10	11	15	13	K	10 1+	8 1+	18 2+	10 1+	8 1+	24 3-	7 10	9 1+	12	13-	5	11+
19	14	6	10	10	10	CK	11 2-	14 20	8 1+	11 2-	13 2-	6 10	5 1-	10 1+	10	11+	5	10-
20	22	15	19	18	19		26 3-	24 3-	16 20	23 3-	24 3-	16 20	14 20	11 2-	19	18+	8	170
21	15	11	12	14	13	CK	13 2-	14 20	10 1+	13 2-	12 2-	19 2+	18 2+	12 2-	14	15-	7	14+
22	16	8	9	16	12	KC	18 2+	15 20	11 2-	5 1-	10 1+	9 1+	24 3-	10 1+	13	13+	6	13-
23	12	8	9	11	10	CC	11 2-	17 2+	10 1+	9 1+	10 1+	12 2-	8 1+	6 10	10	120	5	10+
24	10	6	7	9	8	CC *	6 10	8 1+	7 10	9 1+	3 0+	8 1+	4 1-	13 2-	7	9-	4	8-
25	16	8	9	15	12	CC	11 2-	9 1+	9 1+	10 1+	8 1+	13 2-	16 20	10 1+	11	120	6	12+
26	17	8	11	14	13	CC	11 2-	17 2+	11 2-	6 10	7 10	10 1+	10 1+	11 2-	10	120	5	110
27	9	8	8	9	8	CC *	7 10	15 20	11 2-	8 1+	9 1+	8 1+	4 1-	1 00	8	9+	3	7-
28	25	17	8	35	21		9 1+	9 1+	2 0+	7 10	20 2+	38 3+	48 4-	15 20	19	15+	11	16-
29	9	9	7	11	9	C	4 1-	19 2+	16 20	11 2-	12 2-	10 1+	4 1-	6 10	10	11+	4	9+
30	22	10	19	13	16		16 20	21 3-	23 3-	10 1+	8 1+	4 1-	17 2+	16 20	14	150	7	14+
31	36	28	25	39	32		40 3+	21 3-	18 2+	34 3+	39 3+	39 3+	12 2-	24 3-	28	23-	15	230

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



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUL-SEP 1996

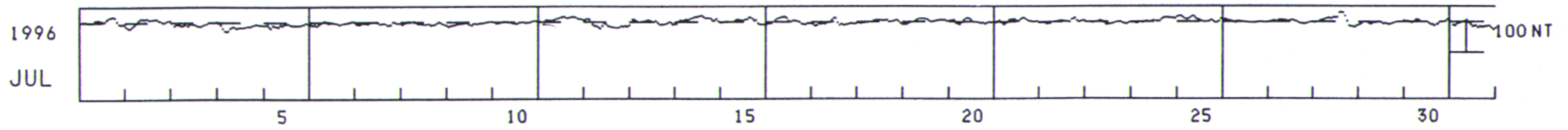


Dst monthly table of hourly indices - July 1996

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

JULY 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	-1	1	1	-2	-3	-3	0	5	8	8	6	3	2	7	11	16	16	19	16	3	-6	-8	-5	-9
2	-15	-19	-19	-14	-10	-3	6	10	11	10	11	12	8	8	9	9	9	6	4	-2	0	4	5	6
3	0	-11	-7	-7	-10	-12	-10	-8	-11	-8	-6	-8	-8	-11	-13	-13	-10	-7	-5	-2	0	0	0	1
4	-4	-10	-21	-28	-30	-28	-20	-16	-16	-20	-18	-17	-17	-18	-16	-14	-16	-11	-10	-8	-9	-9	-10	-11
5	-11	-9	-15	-19	-12	-13	-15	-15	-9	-11	-7	-7	-6	-9	-11	-11	-12	-11	-12	-10	-7	-4	-5	-7
6	-9	-11	-10	-13	-10	-5	0	4	2	-5	-4	-4	-3	-6	-6	-9	-7	-5	-5	-4	-3	-1	1	-1
7	-7	-10	-10	-6	-5	-5	-7	-4	-2	-1	-1	-4	-8	-8	-5	-8	-12	-12	-9	-2	-1	-5	-5	-6
8	-9	-5	-3	1	1	0	1	-4	-8	-8	-7	-9	-9	-8	-8	-11	-10	-9	-6	-2	-4	-8	-10	-11
9	-15	-14	-12	-12	-9	-8	-7	-5	-5	-4	-6	-9	-11	-8	-6	-7	-6	-5	-6	-3	-1	0	2	2
10	-1	-6	-5	-4	-1	2	1	-1	-2	-4	-5	-6	-7	-4	-2	-2	-3	-4	-3	0	2	3	2	1
11	1	0	2	5	6	3	4	5	7	10	12	14	17	15	12	12	13	16	16	13	10	9	7	5
12	7	10	8	-1	-10	-14	-14	-18	-22	-14	-5	-7	-13	-15	-17	-18	-21	-21	-17	-14	-16	-14	-16	-12
13	-2	8	8	3	0	-1	1	2	4	6	4	1	0	3	-3	-9	-9	-9	-8	-5	-1	-3	-9	-8
14	-7	2	6	4	6	8	6	9	12	14	17	16	18	21	17	12	12	11	9	3	3	9	1	-3
15	-4	-1	2	1	-2	-1	1	5	7	6	5	4	7	7	13	13	10	3	6	-6	-9	-10	-10	-11
16	-8	-6	-5	-2	5	10	11	13	16	15	11	3	-1	4	4	3	1	-2	-7	-8	-9	-5	-6	-6
17	-7	-13	-12	-6	-7	-5	-8	-4	-4	-1	5	12	11	-3	-11	-7	-12	-9	-9	-7	-6	-7	-7	-5
18	-4	-5	-3	-4	-3	-1	-1	-1	4	6	5	6	6	3	6	6	-1	-1	2	4	5	2	-5	-9
19	-10	-10	-5	-3	0	0	4	8	10	10	10	9	8	3	-1	1	2	4	6	6	5	5	1	3
20	4	4	5	-5	-8	-9	-4	6	10	12	10	5	0	-1	0	-4	-5	-4	-7	-6	-1	-3	-2	-2
21	-3	1	4	-4	-9	-7	-3	6	7	8	7	4	2	8	11	12	7	3	2	2	-2	0	2	-3
22	-4	-4	-4	-8	-5	-5	-2	-1	2	2	3	4	1	1	1	0	7	10	12	4	0	1	4	3
23	-2	0	-1	-4	-1	-1	1	3	1	-3	-9	-10	-8	-7	-5	-3	-2	-2	-1	-5	-7	-7	-4	-3
24	-4	-4	-5	-4	-2	-3	-1	2	0	0	2	4	2	1	2	7	12	13	14	12	12	12	10	15
25	19	19	14	10	7	9	13	18	17	10	8	5	2	0	-2	0	1	5	1	-3	-3	2	9	7
26	8	8	4	3	1	-1	-3	1	1	-2	-2	-2	-3	-3	-4	-4	-3	-3	0	0	-2	-3	-3	-1
27	0	2	3	1	2	5	5	5	6	4	2	3	5	4	1	-2	-5	-6	-7	-8	-6	-4	-1	-2
28	-3	-2	0	3	6	8	9	11	11	9	13	14	14	28	30	29	19	1	-13	-16	-16	-18	-14	-11
29	-10	-6	-1	-2	-3	-8	-7	-3	-3	-3	-2	-4	-7	-6	-8	-9	-8	-5	-3	-1	-2	-2	0	3
30	1	2	2	-3	-1	5	8	3	0	-1	-1	-2	-6	-9	-10	-13	-10	-8	0	-1	-2	2	8	11
31	-2	-12	-13	-7	-5	-3	-2	2	5	-4	-9	-15	-13	-14	-20	-16	-18	-15	-16	-14	-14	-20	-27	-23



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