

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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CONTENTS

Rapid Variations	- provisional determination of ssc and sfe	July 2004
Classification of days	- five international quietest days and most disturbed days	July 2004
aa	- hemispheric N, S, daily values and planetary half day and daily values	July 2004
	- musical diagram of aa (latest values)	July up to 5 September 2004
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	July 2004
am, Km	- three hour indices values musical diagram of Km	July 2004
Am, ΣKm	- daily values	July 2004
Ap, ΣKp	- daily values	July 2004
	- monthly tables of hourly indices	July 2004
Dst	- monthly tables of hourly indices	March & April 2004

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PRELIMINARY REPORT ON RAPID VARIATIONS

JULY 2004

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

16 13 53	A: SOD NAG SPT GUI (See SFE list) B: NUR DOU CLF HRB C: NGK* GCK -: COI (SI: VAL)	12	0616-0628	NGK+
16 21 55	C: BDV* MMB* KAK KNY	13	0844-0900	BDV+
22 10 36	A: LER* ESK* VAL* HAD* GUI GNA CNB B: SOD* NUR* HRB NAG* MMB* EBR KAK* KNY*	13	0927-0933	NGK+
	C: NGK* DOU BDV* CLF* GCK SPT HYB	14	0516-0540	MMB+ KAK+ KNY+ HYB
24 06 14	A: SOD* LER* ESK* VAL* HAD* MMB* EBR* SPT* KAK* KNY* GUI B: NUR* CLF* HRB NAG* C: NGK* DOU BDV*	15	0132-0206	GNA+ CNB+
	-: COI	15	0137-0200	MMB+ KAK+ KNY+
26 22 49	A: SOD* NUR LER* ESK* NGK* VAL HAD* DOU* CLF HRB* NAG* MMB* EBR* SPT* KAK KNY* HYB GNA* CNB*	15	2236-2255	MMB+ KAK+ KNY+
	B: BDV* GCK*	16	0159-0255	MMB+ KAK+ KNY+ CNB+
	-: COI*	16	0204-0212	GNA+
30 21 14	A: NAG* B: SPT GUI* C: NGK* BDV* CLF HRB -: COI (SI: LER* ESK* HAD* EBR)	16	1038-1055	BDV+
		16	1353-1521	LER ESK HAD BDV+ EBR+ (See SSC list)
		17	0755-0805	MMB+ KAK+ KNY+
		17	2128-2150	MMB+ KAK+ KNY+
		18	0254-0310	MMB+ KAK+ KNY+
		20	1225-1252	NGK+ HAD BDV+ EBR GUI
		21	0032-0045	MMB+ KAK+ KNY+
		21	0513-0520	MMB+ KAK+ KNY+
		22	0023-0050	MMB+ KAK+ KNY+ CNB+

REPORTING OBSERVATORIES (up to 2/09/2004) :

SOD NUR LER ESK NGK VAL HAD DOU BDV CLF HRB NAG GCK MMB EBR COI SPT KAK HTY KNY GUI HYB GNA CNB

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

July 2004

8 7 9 21 6

27 25 23 26 24

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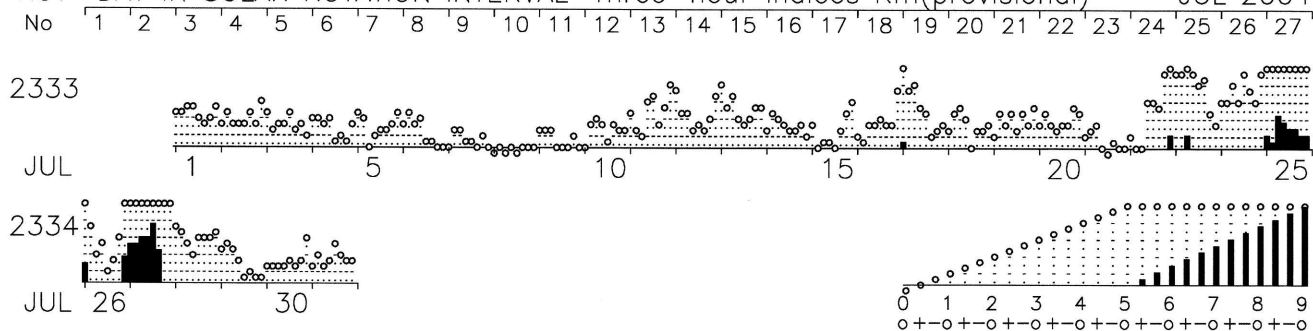
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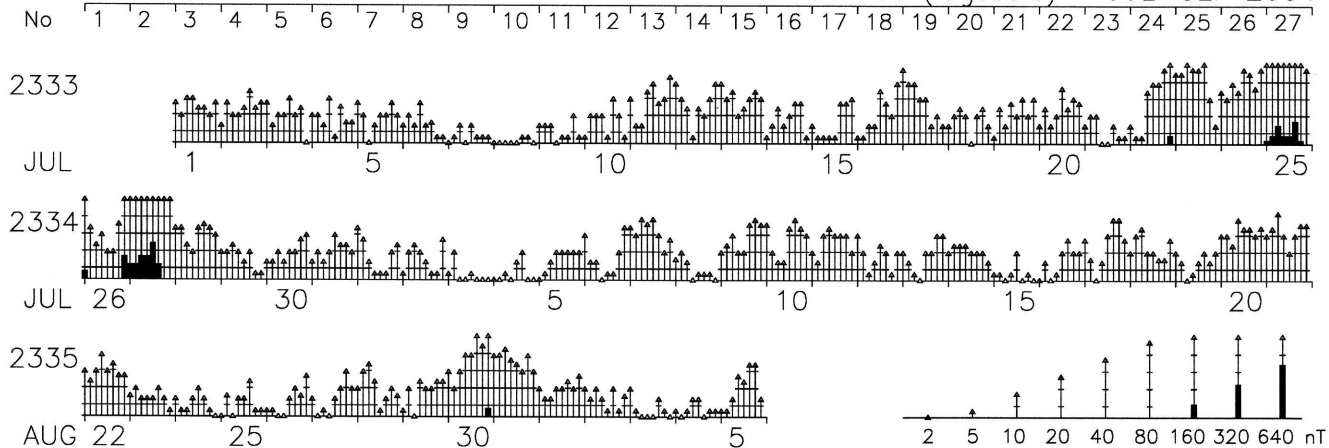
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

JULY 2004						Geomagnetic Indices <i>(provisional)</i>								Daily Average and Sum			
	aa				quiet D days	am and Km for each three hour interval								Daily Average and Sum			
	N	S	am	pm		1	2	3	4	5	6	7	8	Am	Σ Km	Ap	Kp
1	20	16	20	16	18	20 2+	18 2+	25 3-	25 3-	15 2o	13 2-	15 2o	21 3-	19	18+	8	17+
2	21	13	13	21	17	12 2-	18 2+	11 2-	12 2-	12 2-	20 2+	13 2-	27 3o	16	16o	8	17-
3	13	13	13	14	13 C	19 2+	9 1+	11 2-	12 2-	17 2+	8 1+	13 2-	6 1o	12	13+	6	12+
4	16	8	14	10	12 CC	16 2o	14 2o	11 2-	16 2o	5 1-	7 1o	5 1-	13 2-	11	12-	5	12-
5	17	7	11	14	12 CC	19 2+	16 2o	3 0+	6 1o	8 1+	8 1+	12 2-	18 2+	11	12+	6	12+
6	10	9	12	7	9 CC*	12 2-	20 2+	13 2-	16 2o	5 1-	5 1-	3 0+	3 0+	10	10-	5	9+
7	6	4	4	6	5 CC*	3 0+	9 1+	9 1+	5 1-	5 1-	2 0+	6 1o	3 0+	5	6o	3	6-
8	4	2	2	4	3 CC*	1 0o	2 0+	1 0o	3 0+	1 0o	3 0+	2 0+	2 0+	2	2-	2	3o
9	8	5	7	7	7 CC*	10 1+	9 1+	8 1+	3 0+	2 0+	3 0+	7 1o	2 0+	6	6+	4	7-
10	13	9	10	12	11 CK	3 0+	12 2-	16 2o	11 2-	4 1-	12 2-	10 1+	9 1+	10	11-	6	12o
11	32	23	18	37	28	19 2+	9 1+	6 1o	31 3o	36 3+	11 2-	21 3-	59 4o	24	19+	18	23o
12	29	18	23	24	23	45 4-	19 2+	20 2+	8 1+	12 2-	9 1+	14 2o	36 3+	20	18o	12	19o
13	31	21	28	24	26	60 4o	23 3-	36 3+	14 2o	12 2-	14 2o	22 3-	21 3-	25	21o	14	22+
14	15	9	9	14	12 CK	8 1+	19 2+	15 2o	11 2-	8 1+	10 1+	11 2-	7 1o	11	13-	6	13o
15	16	7	6	17	12 KK	11 2-	3 0+	5 1-	5 1-	3 0+	9 1+	19 2+	31 3o	11	10+	6	11o
16	24	10	7	28	17	7 1o	4 1-	12 2-	12 2-	15 2o	11 2-	11 2-	43 4-	14	14o	9	15-
17	35	27	49	13	31	108 5+	46 4-	55 4o	22 3-	18 2+	6 1o	9 1+	11 2-	34	22o	22	23o
18	12	9	12	10	11 CC	10 1+	18 2+	21 3-	14 2o	2 0+	8 1+	10 1+	11 2-	12	13o	6	12+
19	16	14	12	18	15 C	6 1o	18 2+	11 2-	19 2+	8 1+	18 2+	11 2-	25 3-	15	15+	8	15+
20	22	13	11	24	18	13 2-	20 2+	13 2-	10 1+	13 2-	11 2-	23 3-	20 2+	15	15+	8	16o
21	8	5	9	5	7 CK*	7 1o	10 1+	12 2-	3 0+	1 0o	5 1-	2 0+	3 0+	5	6-	4	7-
22	55	35	13	77	45	6 1o	2 0+	3 0+	28 3o	33 3o	26 3-	84 5-	137 6-	40	21-	32	24+
23	75	57	79	54	66	79 5-	78 5-	128 6-	81 5-	59 4o	66 4+	17 2+	11 2-	65	32o	48	37o
24	62	37	33	66	50	27 3o	27 3o	52 4o	31 3o	74 5-	50 4-	32 3o	83 5-	47	29o	37	33+
25	149	136	146	140	143	124 6-	119 5+	227 7-	195 6+	163 6o	149 6o	128 6-	140 6-	156	47+	150	58o
26	62	63	52	72	62	152 6o	44 4-	14 2o	23 3-	7 1o	13 2-	28 3o	187 6+	59	26+	48	30-
27	195	190	200	184	192	257 7o	254 7o	299 7+	296 7+	402 8o	207 7-	100 5o	102 5o	240	53+	171	60-
28	30	24	23	31	27	42 4-	34 3+	23 3-	16 2o	29 3o	27 3o	29 3o	36 3+	30	24o	16	24+
29	11	10	13	8	10 C	18 2+	21 3-	19 2+	12 2-	5 1-	7 1o	5 1-	5 1-	12	12o	5	11+
30	16	10	9	17	13 CC	8 1+	8 1+	9 1+	9 1+	12 2-	10 1+	11 2-	30 3o	12	13o	6	13-
31	12	15	10	17	14 C	10 1+	14 2o	9 1+	13 2-	26 3-	16 2o	11 2-	12 2-	14	14+	6	14-

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) JUL 2004



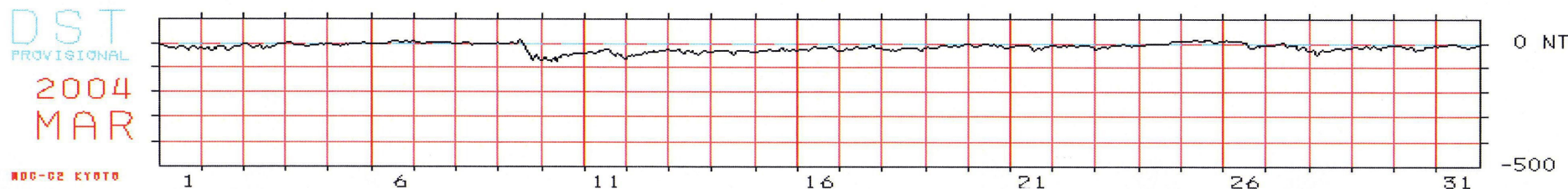
ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUL-SEP 2004



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - March 2004 -

Unit=nT

DAY	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	-9	-7	-10	-12	-14	-19	-21	-18	-20	-23	-20	-15	-13	-13	-18	-26	-32	-18	-12	-12	-18	-26	-22	-20
2	-24	-25	-22	-21	-28	-28	-25	-21	-25	-16	-13	-14	-15	-18	-29	-31	-26	-17	-14	-13	-16	-15	-9	-3
3	-2	-3	-8	-14	-17	-17	-16	-14	-10	-15	-23	-22	-16	-20	-19	-17	-14	-13	-11	-5	-5	-5	-2	0
4	2	3	2	0	-8	-9	-9	-10	-9	-10	-12	-13	-13	-11	-10	-11	-10	-7	-5	-4	-6	-6	-3	-1
5	-2	-2	-6	-9	-6	-6	-12	-8	-6	-4	-7	-4	-1	-1	-2	-1	-2	-1	1	3	-2	-4	-3	-4
6	-3	-3	-2	-3	-2	-4	-5	-4	0	4	5	6	6	6	6	5	4	5	6	8	5	5	7	7
7	4	3	4	0	-1	0	3	4	4	4	3	3	4	2	1	1	3	2	4	3	1	-2	-5	-5
8	-3	-2	0	2	2	2	1	-1	-6	-4	-3	-2	-2	-2	-2	-2	-3	-2	-1	0	0	0	0	1
9	0	-1	-1	-1	-3	-3	1	4	0	-1	3	15	8	-1	-16	-32	-40	-53	-70	-59	-45	-56	-71	-70
10	-63	-59	-57	-68	-68	-77	-63	-60	-77	-60	-57	-49	-45	-48	-54	-49	-47	-41	-42	-44	-40	-43	-40	-42
11	-44	-38	-34	-37	-39	-40	-37	-34	-31	-32	-29	-26	-24	-25	-28	-43	-46	-51	-43	-48	-45	-56	-63	-64
12	-54	-51	-47	-52	-50	-49	-45	-46	-41	-37	-40	-35	-35	-34	-34	-31	-35	-36	-32	-29	-29	-30	-27	-26
13	-29	-29	-29	-29	-26	-25	-34	-41	-40	-31	-30	-34	-32	-39	-43	-45	-41	-36	-31	-29	-35	-38	-37	-35
14	-34	-31	-29	-29	-28	-31	-31	-30	-32	-34	-36	-45	-43	-31	-28	-30	-28	-28	-30	-33	-36	-38	-38	-38
15	-35	-32	-29	-30	-31	-31	-28	-26	-24	-28	-28	-30	-31	-28	-20	-22	-28	-24	-31	-29	-25	-27	-28	-30
16	-27	-26	-25	-24	-23	-28	-27	-22	-16	-15	-19	-19	-18	-22	-22	-19	-19	-15	-13	-15	-19	-24	-28	-29
17	-30	-28	-24	-22	-25	-27	-24	-19	-16	-16	-18	-21	-20	-19	-17	-13	-12	-10	-11	-14	-17	-22	-20	-19
18	-24	-24	-25	-27	-29	-27	-29	-29	-27	-24	-21	-21	-20	-22	-21	-21	-22	-19	-20	-25	-32	-29	-20	-17
19	-15	-19	-20	-17	-18	-18	-18	-13	-7	-6	-7	-11	-12	-14	-12	-11	-11	-13	-14	-11	-9	-5	-1	0
20	-2	-6	-14	-16	-16	-11	-8	-5	-4	-4	-5	-5	-7	-10	-3	-7	-15	-8	-10	-15	-20	-21	-17	-14
21	-12	-12	-9	-10	-10	-10	-9	-10	-6	-9	-12	-21	-28	-26	-17	-17	-21	-23	-19	-15	-13	-15	-11	-10
22	-8	-10	-15	-15	-15	-10	-11	-12	-7	-9	-8	-9	-12	-12	-11	-11	-11	-6	-9	-8	-14	-15	-18	-25
23	-25	-21	-17	-14	-13	-14	-17	-15	-10	-10	-11	-8	-7	-6	-4	-4	-6	-6	-10	-13	-8	-10	-11	-11
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27	-8	-7	-9	-9	-6	-4	-4	-5	3	4	-5	-13	-10	-8	-6	-9	-9	-26	-22	-16	-15	-19	-29	-32
28	-30	-27	-29	-38	-47	-41	-32	-27	-31	-33	-30	-29	-26	-24	-22	-22	-22	-22	-23	-23	-20	-20	-19	-17
29	-15	-13	-15	-20	-21	-18	-15	-10	-12	-19	-19	-13	-10	-14	-20	-19	-23	-14	-12	-12	-11	-11	-11	-10
30	-9	-7	-6	-9	-12	-12	-17	-17	-15	-12	-20	-28	-25	-27	-25	-23	-19	-14	-14	-14	-13	-12	-10	-9
31	-12	-11	-10	-10	-9	-7	-5	-3	-5	-2	-5	-8	-10	-13	-16	-16	-18	-17	-14	-15	-13	-9	-9	-8



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - Avril 2004 -

Unit=nT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								
1	-11	-12	-12	-12	-12	-10	-9	-8	-7	-6	-7	-10	-10	-12	-10	-6	-3	-4	-6	-9	-8	-4	-3	-5
2	-5	-7	-5	-2	2	5	3	4	6	5	3	-1	1	3	2	-1	-2	-3	-1	2	2	2	2	2
3	2	1	-4	-10	-16	-20	-18	-18	-14	-10	-11	-10	-7	-13	1	-6	-29	-51	-76	-88	-74	-83	-84	-97
4	-112	-103	-81	-76	-75	-69	-68	-64	-58	-49	-46	-41	-29	-24	-23	-14	-16	-17	-15	-11	-11	-16	-18	-12
5	-14	-15	-14	-13	-11	-8	-5	-6	-2	-3	-8	-7	-4	-10	-24	-24	-17	-39	-64	-81	-74	-60	-55	-53
6	-57	-61	-47	-42	-45	-59	-65	-60	-53	-55	-59	-61	-55	-53	-47	-45	-45	-48	-47	-42	-38	-38	-35	-36
7	-36	-36	-35	-30	-31	-25	-22	-22	-22	-24	-29	-31	-29	-25	-23	-22	-23	-25	-25	-25	-21	-24	-27	-27
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12	-22	-28	-24	-20	-18	-17	-24	-23	-18	-21	-17	-14	-12	-10	-13	-17	-14	-14	-4	-8	-9	-7	-9	-13
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14	-11	-11	-13	-10	-11	-10	-10	-12	-9	-6	-4	-2	-1	-3	-6	-7	-7	-9	-11	-10	-11	-6	-5	-3
15	-3	-3	-1	-3	-4	-2	0	3	4	6	9	2	-2	-3	-7	-9	-8	-10	-10	-10	-11	-8	-6	-8
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17	-13	-14	-15	-16	-20	-16	-14	-11	-10	-11	-9	-8	-4	-4	-7	-7	-7	-7	-11	-15	-21	-19	-11	-11
18	-9	-10	-7	-7	-11	-14	-15	-12	-13	-13	-14	-16	-17	-20	-25	-20	-11	-14	-18	-18	-18	-15	-14	-16
19	-16	-15	-15	-16	-14	-17	-17	-13	-12	-9	-10	-9	-7	-3	-2	-6	-8	-9	-9	-10	-9	-9	-8	-7
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24	-20	-16	-13	-13	-16	-14	-12	-16	-11	2	-6	-7	-5	-10	-11	-7	-3	-1	-2	-2	-5	-8	-4	-4
25	-3	-4	-3	-3	-13	-15	-17	-16	-24	-27	-27	-19	-13	-14	-17	-17	-15	-11	-10	-6	-6	-8	-10	-10
26	-10	-9	-10	-11	-11	-13	-11	-9	-8	-6	-5	-4	-4	-6	-10	-9	3	4	4	-3	-4	-3	0	-1
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29	-10	-9	-8	-6	-8	-10	-9	-6	-4	-4	-3	-1	2	1	-1	-2	-1	-1	-1	-2	-1	0	4	5
30	6	5	-2	-9	-19	-23	-20	-16	-17	-13	-8	-6	-5	-6	-3	2	5	9	11	12	-7	-21	-36	-29

DST
PROVISIONAL
2004
APR

WDC-C2 KYOTO

