

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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ISGI Publications Office Monthly Bulletin n°02-07 - July 2002

C O N T E N T S

Rapid Variations	- provisional determination of ssc and sfe	July 2002
Classification of days	- five international quietest days and most disturbed days	July 2002
aa	- hemispheric N, S, daily values and planetary half day and daily values	July 2002
	- musical diagram of aa (latest values)	July up to 29 September 2002
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	July 2002
am, Km	- three hour indices values musical diagram of Km	July 2002
Am, ΣKm	- daily values	July 2002
Ap, ΣKp	- daily values	July 2002
	- monthly tables of hourly indices	July 2002
Dst	- monthly tables of hourly indices	June, July 2002

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

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PRELIMINARY REPORT ON RAPID VARIATIONS

JULY 2002

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

17 16 04 A: HYB
B: VAL* COI
C: EBR LIV*
-: ETT
19 10 09 A: VAL*
B: CLF* HRB NAG* SPT* HER
C: DOU BDV EBR* HYB
-: ETT
25 13 36 B: SOD* VAL*
C: NGK* BDV* CLF* COI SPT* LIV*
29 13 21 A: VAL* NAG* COI SPT*
B: SOD* NGK* BDV* CLF* HRB EBR* HYB
GNA CNB LIV*
-: ETT

03 0209-0250 MMB+ KAK+ HTY+ KNY+ HYB ETT
GNA+ CNB+
04 0732-0750 MMB+ KAK+ HTY+ KNY+
11 0913-0925 NAG
11 1446-1504 NGK VAL BDV CLF
15 0620-0636 HYB ETT GNA+ CNB+
15 0627-0638 HER
15 2003-2025 MMB+ KAK+ KNY+
18 0332-0350 MMB+ KAK+ HTY+ KNY+
18 0741-0800 NGK BDV CLF MMB+ KAK+ KNY+
HYB ETT GNA+ HER
23 0026-0055 MMB+ KAK+ KNY+
29 0229-0301 HTY+
29 0234-0255 MMB+ KAK+ KNY+
30 1134-1152 NAG

REPORTING OBSERVATORIES (up to 04/09/2002) :

SOD NUR NGK VAL DOU BDV CLF HRB NAG MMB EBR COI SPT KAK HTY KNY HYB ETT GNA HER CNB LIV

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

July 2002

14 3 15 2 4K

6 17 21 12* 27*

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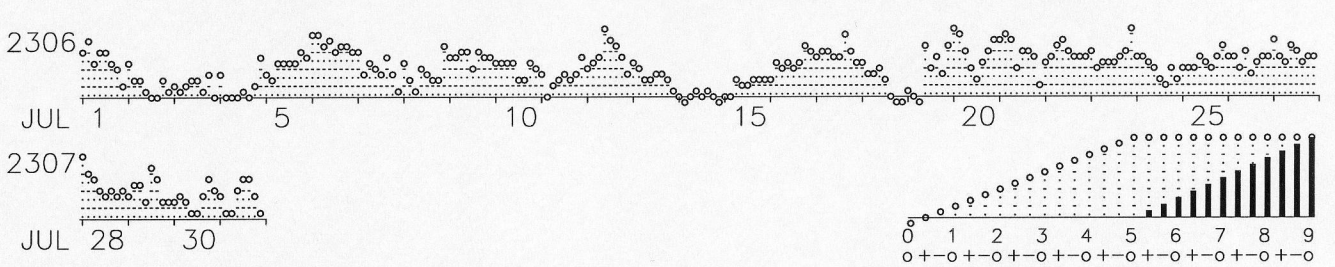
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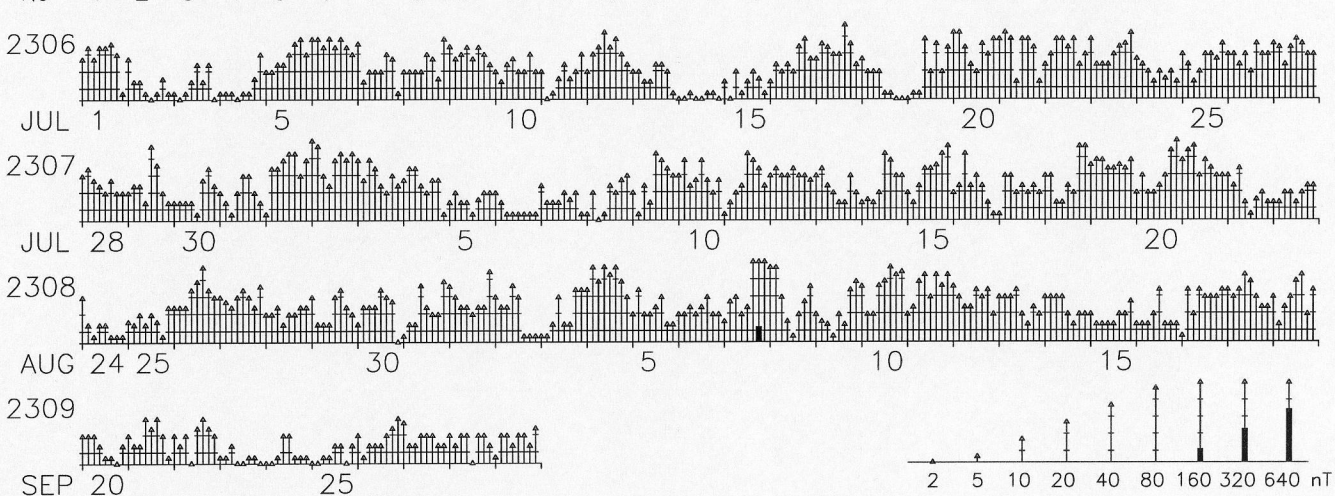
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

JULY 2002					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	32	19	26	25	25		32 30	46 4-	19 2+	31 30	31 30	17 2+	15 20	7 10	25	20+	14	22-				
2	11	5	10	5	8	CK *	18 2+	9 1+	9 1+	4 1-	3 0+	2 0+	9 1+	4 1-	7	8+	5	9+				
3	8	8	5	11	8	CC *	7 10	4 1-	6 10	8 1+	8 1+	5 1-	12 2-	3 0+	7	80	4	7+				
4	11	4	4	11	8	CC *	12 2-	3 0+	3 0+	2 0+	4 1-	2 0+	6 10	23 3-	7	7+	5	8+				
5	29	17	14	33	23		13 2-	9 1+	19 2+	20 2+	17 2+	17 2+	32 30	25 3-	19	180	12	200				
6	42	34	42	33	38		53 40	55 40	37 3+	49 4-	33 30	40 3+	34 3+	27 30	41	28-	22	290				
7	19	13	17	15	16		33 30	11 2-	17 2+	15 20	13 2-	22 3-	12 2-	5 1-	16	16-	8	15+				
8	24	12	12	25	18		17 2+	8 1+	5 1-	16 20	13 2-	8 1+	10 1+	36 3+	14	140	8	150				
9	33	17	27	23	25		23 3-	21 3-	31 30	28 30	15 20	28 30	26 3-	23 3-	24	22-	12	22-				
10	16	13	14	15	15		17 2+	19 2+	20 2+	20 2+	10 1+	8 1+	17 2+	16 20	16	16+	7	150				
11	13	9	7	15	11	C	11 2-	3 0+	6 10	10 1+	11 2-	8 1+	13 2-	22 3-	11	12-	5	11-				
12	34	27	32	29	31		14 20	18 2+	24 3-	69 4+	41 4-	36 3+	22 3-	12 2-	30	23-	19	25+				
13	13	9	10	12	11	C	17 2+	15 20	10 1+	8 1+	12 2-	11 2-	8 1+	4 1-	11	12+	6	13-				
14	4	2	3	4	3	CC *	3 0+	1 00	2 0+	5 1-	3 0+	4 1-	3 0+	1 00	3	3-	2	40				
15	10	5	7	9	8	CC *	3 0+	2 0+	8 1+	7 10	6 10	10 1+	9 1+	8 1+	7	80	4	8+				
16	26	14	13	28	20		10 1+	17 2+	14 20	18 2+	14 20	18 2+	34 3+	29 30	19	19-	12	20-				
17	43	25	28	39	34		25 3-	31 30	32 30	22 3-	24 3-	59 40	31 30	19 2+	30	23+	20	260				
18	11	6	14	4	9	C	20 2+	12 2-	13 2-	16 20	9 1+	2 0+	1 00	1 00	9	9+	5	9+				
19	25	13	14	23	19		4 1-	3 0+	1 00	34 3+	14 20	24 3-	12 2-	38 3+	16	140	10	16-				
20	41	30	42	30	36		69 4+	60 40	30 30	16 20	10 1+	18 2+	27 30	43 4-	34	24-	18	24+				
21	39	33	40	33	36		42 4-	58 40	48 4-	14 20	33 30	33 30	26 3-	7 10	33	230	20	25+				
22	38	24	33	29	31		20 2+	24 3-	38 3+	49 4-	28 30	22 3-	21 3-	23 3-	28	230	16	24+				
23	44	17	23	38	31		27 30	14 20	19 2+	17 2+	18 2+	21 3-	32 30	65 4+	27	220	17	24+				
24	15	9	14	10	12	C	21 3-	21 3-	17 2+	14 20	10 1+	6 10	14 20	8 1+	14	15+	7	14+				
25	28	13	15	26	21		16 20	16 20	14 20	25 3-	20 2+	16 20	24 3-	35 3+	21	190	12	210				
26	29	17	22	24	23		24 3-	22 3-	16 20	29 30	11 2-	19 2+	23 3-	23 3-	21	20-	12	21+				
27	40	22	29	33	31		47 4-	25 3-	18 2+	39 3+	31 30	20 2+	23 3-	26 3-	29	23-	17	26-				
28	24	13	23	14	19		52 40	32 30	23 3-	15 20	12 2-	14 20	12 2-	15 20	22	190	11	19+				
29	29	19	13	34	24		13 2-	18 2+	18 2+	8 1+	40 3+	22 3-	9 1+	8 1+	17	16+	10	17+				
30	15	11	8	18	13	K	9 1+	11 2-	8 1+	5 1-	5 1-	13 2-	26 3-	14 20	11	120	6	13-				
31	15	11	9	17	13	K	12 2-	4 1-	5 1-	15 20	24 3-	24 3-	12 2-	5 1-	13	13-	7	14-				

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) JUL 2002



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUL-SEP 2002

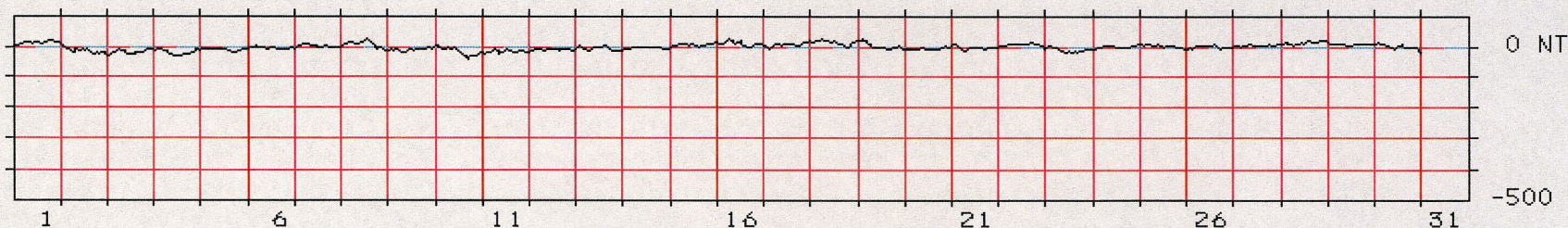


HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - June 2002 -

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	5	5	5	8	10	13	13	12	13	11	12	14	13	10	10	12	15	20	21	19	15	12	14	7
2	5	-1	-6	-6	-15	-20	-18	-11	-10	-12	-12	-11	-13	-10	-16	-20	-26	-24	-22	-25	-19	-18	-22	-28
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8	4	7	7	12	15	14	8	8	10	12	13	18	24	19	15	8	4	-6	-3	-3	-2	-9	-14	-15
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10	2	0	-2	-9	-9	-6	-1	-9	-7	-2	-6	-12	-20	-24	-32	-32	-39	-28	-30	-28	-33	-25	-19	-20
11	-25	-20	-19	-17	-12	-11	-13	-14	-23	-22	-20	-16	-11	-14	-15	-18	-18	-17	-15	-13	-15	-18	-22	-22
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13	-3	1	0	-6	-8	-16	-15	-10	-4	-4	-5	0	0	1	2	-1	-6	-12	-15	-15	-14	-12	-12	-14
14	-11	-9	-6	-6	-2	0	-2	-2	-3	-3	-3	-3	-2	-1	-1	-1	-2	-5	-5	-7	-6	-6	-6	-3
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24	-9	-5	-3	-1	1	2	2	1	2	4	3	0	0	0	0	0	-2	-4	-1	3	3	5	6	7
25	8	5	6	7	6	1	1	4	6	4	3	0	1	4	3	3	4	2	-1	-2	-1	-5	-7	-11
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30	11	12	10	9	8	1	3	0	-5	-8	-4	1	5	8	-2	-3	0	0	-3	-5	-5	-2	-10	-18

DST
PROVISIONAL
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HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - July 2002 -

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
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2	-6	-1	-5	-7	-9	-8	-4	-3	0	3	2	1	2	4	6	5	5	7	8	6	1	0	0	0
3	3	6	8	9	9	10	9	7	5	4	3	6	8	9	7	6	3	1	-2	-1	1	5	8	11
4	10	6	5	10	13	15	14	15	12	11	10	7	5	5	7	11	14	16	21	22	25	22	25	27
5	24	22	26	27	30	32	36	36	27	21	23	25	31	24	20	20	18	15	11	1	3	14	18	9
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