

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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**PRELIMINARY REPORT ON RAPID VARIATIONS**

**APRIL 2002**

**SSC - Storm Sudden Commencements**

**SFE - Solar Flare Effects**

14 12 34 B: GUI  
C: NGK\* GCK EBR HYB  
17 11 07 A: NUR\* NGK\* VAL\* CLF\* NAG\* MMB\* SPT\*  
KAK\* KNY\* GUI HYB ETT HER  
B: BDV\* HRB\* GCK\* EBR\* LIV  
19 08 35 A: VAL\* CLF\* LIV  
B: NUR\* NGK\* BDV\* HRB\* NAG\* GCK\* MMB\*  
EBR\* SPT\* KAK\* KNY\* HYB ETT  
23 04 48 A: NUR VAL\* CLF\* SPT\* GUI\* HYB ETT HER  
B: BDV\* NAG\* EBR\* GNA CNB LIV  
C: NGK\* HRB GCK

04 1527-1556 NGK BDV SPT GUI  
09 0039-0115 MMB KAK KNY  
09 1257-1309 NGK BDV  
10 1226-1245 NGK BDV GUI

REPORTING OBSERVATORIES (up to 4th of June 2002):

NUR NGK VAL BDV CLF HRB NAG GCK MMB EBR SPT KAK KNY GUI HYB ETT GNA HER CNB LIV

**FIVE INTERNATIONAL QUIETEST DAYS**

**FIVE INTERNATIONAL MOST DISTURBED DAYS**

**April 2002**

8 9 26 5 25

20 18 17 19 23

Directeur de la Publication : J. PARIS - Edité le 26/06/2001 par E. LEMAULF

Collaborateurs : L.F. ALBERCA SILVA - P. CUGNON - T. KAMEI - M. MENVIELLE - M. SIEBERT - M. SUGIURA

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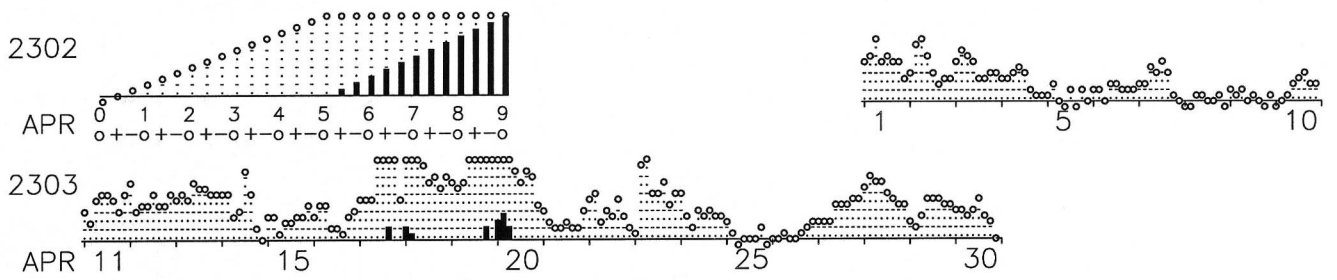
CETP 4, avenue Neptune - 94107 SAINT MAUR DES FOSSES CEDEX - FRANCE

Téléphone : +33 +1 45 11 42 47 -Télécopie : +33 +1 48 89 44 33 Email : Josette.PARIS@cetp.ipsl.fr

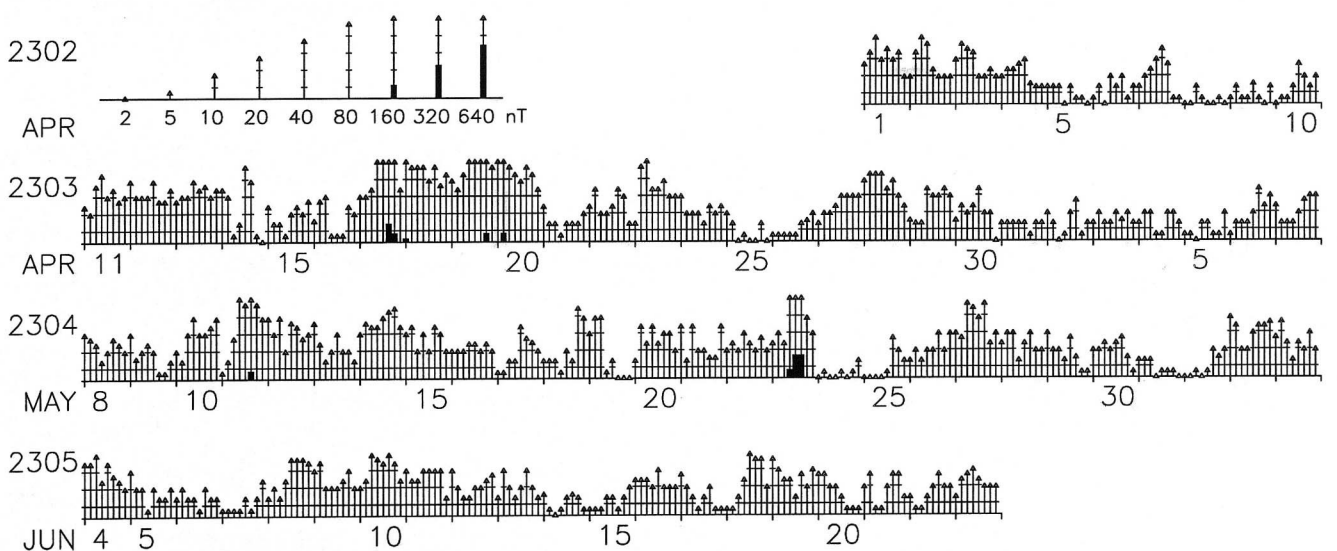
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

APRIL 2002		Geomagnetic Indices (provisional)											Daily Average and Sum					
aa		quiet	am and Km for each three hour interval											Am ΣKm Ap ΣKp				
N	S	am	pm	D	days	1	2	3	4	5	6	7	8	Am	ΣKm	Ap	ΣKp	
1	35	25	34	26	30		25 3-	31 3o	55 4o	23 3-	27 3o	23 3-	26 3-	11 2-	28	22+	18	26-
2	27	23	37	13	25		15 2o	46 4-	51 4o	33 3o	15 2o	8 1+	12 2-	11 2-	24	19+	14	21-
3	30	17	35	13	24		25 3-	39 3+	27 3o	25 3-	13 2-	12 2-	15 2o	14 2o	21	19o	14	22+
4	13	15	16	12	14	C	12 2-	13 2-	15 2o	18 2+	16 2o	7 1o	5 1-	5 1-	11	12o	5	11o
5	6	5	7	5	6	CC*	5 1-	8 1+	2 0+	1 0o	6 1o	1 0o	6 1o	3 0+	4	5-	3	6o
6	6	9	7	8	8	CC	6 1o	7 1o	2 0+	8 1+	8 1+	6 1o	6 1o	6 1o	6	8o	4	8-
7	20	11	15	17	16	K	10 1+	8 1+	17 2+	15 2o	22 3-	15 2o	4 1-	3 0+	12	13-	7	14o
8	4	3	4	3	4	CK*	0 0o	0 0o	5 1-	4 1-	2 0+	2 0+	5 1-	1 0o	2	3-	2	3+
9	8	4	6	6	6	CC*	6 1o	5 1-	6 1o	2 0+	4 1-	3 0+	1 0o	5 1-	4	5-	3	6-
10	11	7	5	13	9	C	0 0o	3 0+	5 1-	8 1+	13 2-	14 2o	9 1+	10 1+	8	9-	5	11-
11	40	16	31	25	28		15 2o	8 1+	25 3-	31 3o	28 3o	25 3-	15 2o	32 3o	22	20-	15	23+
12	36	22	29	29	29		47 4-	15 2o	18 2+	20 2+	30 3o	17 2+	19 2+	27 3o	24	21o	16	24o
13	38	21	28	31	30		22 3-	31 3o	25 3-	43 4-	34 3+	35 3+	30 3o	33 3o	32	25-	17	26-
14	26	25	17	33	25		33 3o	33 3o	11 2-	16 2o	66 4+	28 3o	7 1o	3 0+	25	18+	13	18+
15	14	10	9	15	12	C	11 2-	12 2-	5 1-	8 1+	10 1+	13 2-	13 2-	17 2+	11	12+	6	12-
16	16	8	15	10	12	C	12 2-	18 2+	20 2+	6 1o	6 1o	5 1-	13 2-	16 2o	12	13-	7	13o
17	97	64	46	116	81		21 3-	22 3-	26 3-	89 5o	89 5o	139 6-	100 5o	24 3-	64	31+	62	38o
18	69	76	89	56	73		122 6-	112 5+	97 5o	78 5-	50 4-	54 4o	39 3+	58 4o	76	36-	63	42+
19	87	78	60	105	82		44 4-	36 3+	49 4-	98 5o	98 5o	94 5o	125 6-	102 5o	81	36+	62	42o
20	79	69	95	54	74		151 6o	178 6+	123 6-	69 4+	41 4-	69 4+	57 4o	19 2+	88	37-	70	43-
21	10	8	9	9	9	C	16 2o	10 1+	7 1o	7 1o	9 1+	6 1o	7 1o	15 2o	10	11-	5	11o
22	20	18	18	20	19		21 3-	33 3o	10 1+	14 2o	13 2-	24 3-	13 2-	6 1o	17	16o	11	18+
23	44	43	56	31	44		4 1-	74 5-	100 5o	31 3o	31 3o	47 4-	17 2+	31 3o	42	25+	27	28+
24	15	13	15	13	14		31 3o	12 2-	7 1o	14 2o	12 2-	14 2o	11 2-	12 2-	14	15-	7	15-
25	5	5	7	4	5	CC*	9 1+	4 1-	1 0o	2 0+	2 0+	2 0+	7 1o	0o	3	4o	3	5+
26	7	7	5	9	7	CC*	3 0+	3 0+	4 1-	2 0+	3 0+	5 1-	6 1o	10 1+	5	5o	3	6-
27	21	15	12	24	18		10 1+	10 1+	8 1+	17 2+	19 2+	18 2+	26 3-	25 3-	17	16+	10	18o
28	46	39	56	29	42		34 3+	56 4o	46 4-	45 4-	28 3o	26 3-	19 2+	17 2+	34	25o	20	27-
29	24	17	14	26	20		9 1+	6 1o	11 2-	22 3-	22 3-	21 3-	19 2+	17 2+	16	17-	9	17o
30	15	13	13	15	14		15 2o	14 2o	12 2-	15 2o	22 3-	13 2-	9 1+	2 0+	13	14-	7	14o

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

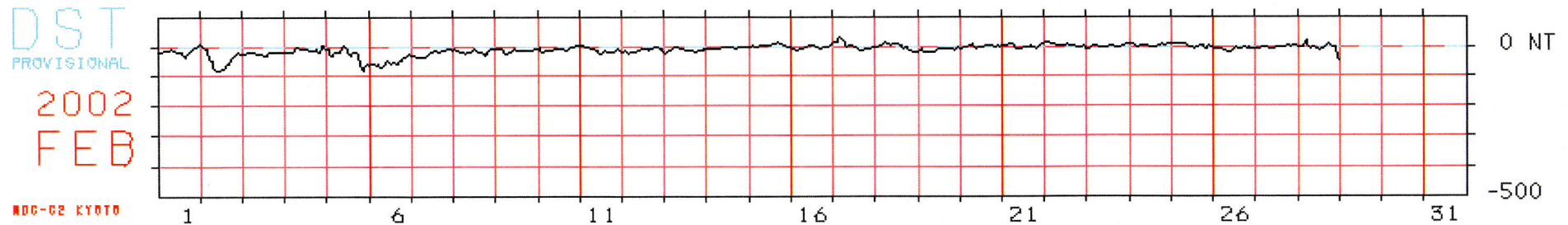


ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) APR-JUN 2002



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - February 2002 -

Unit = NT																								U.T.
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	-21	-19	-18	-16	-13	-16	-12	-7	-12	-14	-18	-22	-17	-21	-33	-35	-25	-18	-14	-11	-5	-4	3	6
2	4	-5	-6	-8	-31	-45	-50	-60	-74	-81	-80	-83	-77	-76	-70	-60	-58	-45	-37	-32	-24	-20	-24	-23
3	-23	-24	-20	-17	-20	-21	-22	-23	-24	-25	-24	-28	-28	-30	-23	-21	-22	-21	-20	-19	-18	-18	-19	-19
4	-21	-21	-19	-19	-21	-13	-5	-5	-7	-8	-8	-7	-11	-14	-16	-16	-12	-10	-20	-17	-9	5	4	-6
5	-6	-10	-30	-28	-20	-20	-20	-18	-8	1	0	-9	-26	-29	-18	-17	-22	-23	-47	-67	-81	-66	-60	-62
6	-61	-56	-58	-65	-62	-59	-70	-68	-64	-56	-50	-52	-60	-51	-54	-59	-56	-49	-46	-37	-34	-28	-24	-32
7	-32	-33	-34	-36	-37	-37	-37	-34	-29	-25	-21	-20	-22	-15	-15	-17	-19	-16	-14	-13	-10	-9	-7	-12
8	-11	-15	-15	-17	-20	-21	-24	-20	-19	-20	-14	-10	-14	-18	-20	-21	-24	-25	-28	-23	-15	-9	-6	-9
9	-8	-7	-7	-11	-16	-23	-24	-21	-17	-12	-10	-14	-15	-13	-13	-15	-15	-12	-12	-12	-13	-7	-9	-8
10	-4	-11	-20	-19	-12	-14	-15	-13	-14	-11	-7	-6	-10	-11	-11	-15	-13	-8	-4	-4	-1	3	5	3
11	3	1	0	-2	-3	-9	-9	-8	-11	-15	-13	-25	-25	-18	-16	-17	-18	-21	-19	-17	-13	-10	-15	-20
12	-20	-14	-17	-23	-21	-17	-18	-19	-15	-13	-10	-9	-11	-11	-11	-13	-9	-6	-5	-5	-5	-6	-8	-18
13	-27	-22	-16	-14	-9	-5	-2	-2	-7	-6	-9	-12	-15	-15	-14	-16	-21	-18	-16	-16	-15	-12	-9	-10
14	-10	-8	-7	-10	-11	-9	-10	-7	-5	-5	-4	-4	-4	-4	-5	-6	-6	-3	-3	-5	-4	-3	-2	-1
15	0	1	0	-2	-2	0	3	5	2	3	2	3	5	6	7	11	13	7	6	4	2	-2	-1	-4
16	-6	-10	-14	-15	-11	-10	-6	-5	-3	1	1	3	1	3	-1	-5	-7	-8	-3	-1	-3	-2	1	7
17	12	12	14	32	25	20	13	-2	4	5	3	-2	-4	-9	-14	-15	-13	-11	-8	-8	-9	-7	-5	-4
18	-3	0	3	2	7	12	11	9	3	8	7	7	6	1	1	-7	-3	-4	-12	-14	-20	-20	-20	-18
19	-13	-9	-7	-18	-21	-21	-19	-17	-19	-17	-13	-10	-8	-6	-8	-10	-10	-9	-9	-10	-14	-9	-4	-8
20	-9	-4	-1	0	2	5	6	-2	-8	-7	-4	-3	0	0	2	4	3	4	1	0	-1	1	-1	2
21	2	4	5	7	9	10	5	-6	-9	-8	-6	-1	-1	-1	-2	-2	1	-1	-3	-6	-5	2	9	8
22	14	16	14	8	8	6	4	3	2	1	3	5	6	4	5	1	2	-2	-3	-5	-3	1	-3	-8
23	-8	-6	-3	2	5	2	0	-2	-2	-4	-4	0	2	1	1	-1	0	0	0	1	3	6	9	7
24	6	6	5	0	0	1	3	5	2	1	1	-2	-1	-4	-2	0	2	5	6	5	3	7	9	7
25	6	7	8	7	7	9	8	8	2	0	0	-3	-9	-8	-3	-3	2	5	1	-6	-6	1	0	-3
26	-8	-8	-11	-11	-10	-14	-16	-20	-19	-17	-14	-9	-5	-6	-9	-7	-4	-3	-8	-9	-5	-7	-11	-11
27	-6	-7	-6	-3	0	-1	-4	-6	-10	-10	-8	-4	-3	-1	-4	-4	-1	2	1	-1	2	5	2	-1
28	-2	-1	-2	-1	7	22	0	-7	-5	-3	-7	-9	-13	-11	-6	-3	3	6	1	0	-4	-3	-27	-49





HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - March 2002 -

Unit = NT																								U.T.
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	-54	-62	-56	-55	-59	-59	-63	-64	-61	-50	-46	-46	-41	-39	-39	-37	-34	-32	-28	-25	-23	-19	-15	-12
2	-12	-14	-13	-13	-12	-16	-13	-14	-14	-14	-11	-6	-4	-6	-4	-4	-2	-6	-10	-5	-4	-9	-6	1
3	2	7	7	0	-2	-3	-7	-9	-7	-17	-20	-19	-12	-12	-27	-34	-35	-33	-32	-37	-37	-33	-32	-38
4	-24	-19	-17	-17	-17	-17	-13	-11	-10	-7	-1	4	8	8	7	8	2	4	8	5	1	-1	7	11
5	6	-2	-10	-25	-33	-39	-38	-35	-30	-19	-14	-10	-8	-12	-11	-14	-19	-19	-17	-16	-19	-19	-14	-13
6	-11	-9	-6	-6	-12	-23	-33	-25	-18	-18	-16	-10	-14	-16	-21	-20	-15	-25	-37	-28	-20	-12	-12	-15
7	-8	-5	-7	-13	-16	-18	-23	-18	-10	-7	-5	-3	-5	-8	-6	-7	-8	-7	-6	-5	-7	-5	-1	3
8	4	1	0	-4	-6	-9	-11	-12	-20	-20	-12	-6	-4	-4	-4	-4	-3	-3	-2	-3	-4	0	3	3
9	5	5	3	-1	-5	-6	-3	1	2	5	7	8	7	2	-9	-17	-20	-16	-11	-8	-10	-7	-4	1
10	4	5	4	2	-3	-2	1	3	1	-4	-13	-21	-22	-17	-12	-12	-13	-11	-9	-5	-6	-4	-9	-13
11	-16	-21	-15	-9	-20	-21	-15	-9	-13	-13	-13	-8	-3	-5	-2	0	-1	0	1	3	4	2	6	9
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15	8	7	6	4	5	11	14	17	19	18	17	17	16	17	15	15	15	17	17	23	26	27	23	23
16	24	25	25	26	23	25	22	21	21	19	20	17	14	14	9	7	7	9	11	14	13	13	15	15
17	13	10	10	11	12	12	13	14	15	15	15	15	17	17	15	17	17	15	13	12	12	15	14	11
18	7	6	4	6	11	12	11	11	13	10	13	18	19	46	57	61	61	61	48	39	36	34	37	39
19	23	2	-7	-13	-21	-34	-41	-33	-31	-21	-16	-10	-8	-7	-9	-8	-9	-10	-9	-14	-6	-7	-7	-7
20	-12	-12	-11	-14	-15	-15	-14	-16	-16	-14	-14	-14	-14	-9	-5	12	8	14	14	14	10	8	9	9
21	1	0	2	0	-4	-4	-4	-6	-6	-10	-3	0	-1	-4	-6	-4	0	-5	-5	-1	2	4	9	10
22	5	5	5	-2	2	2	-7	-12	-9	-11	-8	-1	1	1	1	3	2	1	0	-2	-2	-1	-1	-1
23	1	1	0	-1	-2	-2	-2	-2	-1	3	5	11	13	10	10	2	-7	-13	-29	-26	-28	-25	-22	-18
24	-22	-37	-44	-51	-64	-78	-91	-87	-99	-101	-85	-80	-71	-80	-90	-95	-95	-87	-84	-87	-88	-85	-72	-66
25	-62	-55	-51	-50	-55	-53	-50	-45	-41	-33	-27	-24	-23	-24	-24	-15	-17	-14	-11	-8	-11	-10	-9	-6
26	-8	-3	-5	-15	-19	-21	-18	-20	-24	-32	-30	-30	-33	-29	-28	-29	-27	-23	-22	-25	-28	-27	-21	-18
27	-15	-11	-9	-9	-10	-13	-14	-14	-14	-11	-10	-8	-6	-4	-4	-4	-7	-8	-6	-6	-7	-8	-9	-7
28	-4	-2	-1	1	2	-1	-2	-2	-2	-1	-1	0	0	1	2	4	4	4	5	4	5	6	7	7
29	7	8	10	9	8	7	4	1	-1	1	6	12	16	16	14	13	13	13	11	14	17	18	28	42
30	42	45	47	44	15	-4	1	-2	-7	-8	-1	1	-6	-13	-11	-20	-25	-32	-35	-29	-20	-14	-6	-3
31	-1	4	6	4	-1	-2	-4	-14	-15	-11	-9	-8	-8	-8	-9	-9	-15	-18	-12	-10	-4	-1	-2	-1

DST  
PROVISIONAL  
2002  
MAR  
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