

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



Bureau des Publications SIIG - Bulletin Mensuel n°03-03 - Mars 2003
 ISGI Publications Office Monthly Bulletin n°03-03 - March 2003

C O N T E N T S

Rapid Variations	- provisional determination of ssc and sfe	March 2003
Classification of days	- five international quietest days and most disturbed days	March 2003
aa	- hemispheric N, S, daily values and planetary half day and daily values	March 2003
	- musical diagram of aa (latest values)	March up to 18 May 2003
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	March 2003
am, Km	- three hour indices values musical diagram of Km	March 2003
Am, ΣKm	- daily values	March 2003
Ap, ΣKp	- daily values	March 2003
	- monthly tables of hourly indices	March 2003
Dst	- monthly tables of hourly indices	February, March 2003

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

MARCH 2003

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

20 04 44 B: SOD* NUR*
C: BDV* EBR* HTY LIV*

03 1513-1524 GUI
11 1717-1740 GUI
19 0947-1000 NGK BDV

REPORTING OBSERVATORIES (up to 05/05/2003) :

SOD NUR NGK VAL BDV CLF HRB NAG GCK EBR SPT HTY GUI GNA CNB LIV

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

March 2003

25 24 26A 12A 8A

17 31 30 29 4

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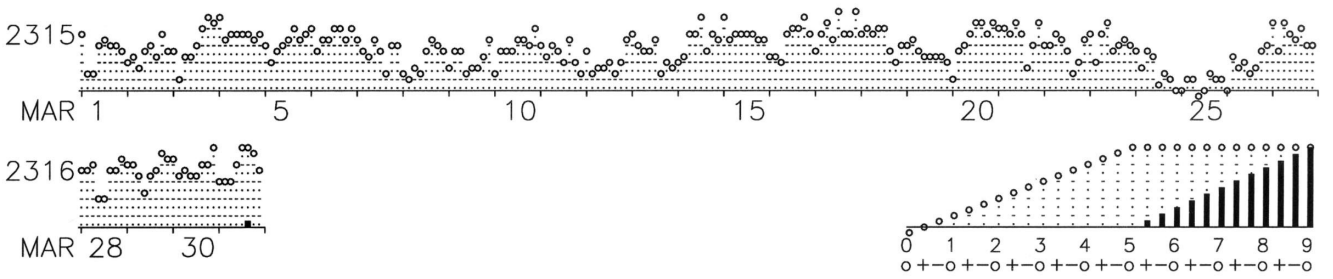
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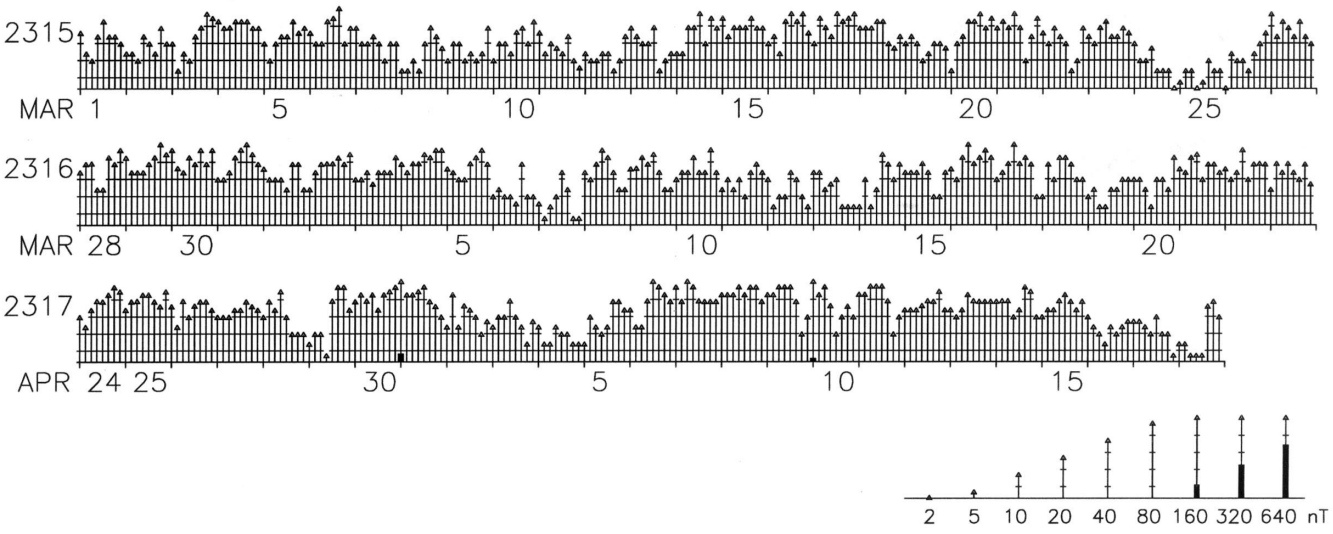
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

MARCH 2003					Geomagnetic Indices (provisional)									Daily Average and Sum				
	aa				quiet days	am anc 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	34	27	24	37	31		43 4-	10 1+	10 1+	28 3o	37 3+	27 3o	32 3o	25 3-	27	21+	15	23-
2	25	21	19	27	23		14 2o	17 2+	12 2-	25 3-	27 3o	18 2+	48 4-	25 3-	23	20+	11	20+
3	41	30	15	56	36		21 3-	6 1o	19 2+	20 2+	28 3o	58 4o	81 5-	63 4+	37	24+	24	26+
4	55	49	52	52	52		73 5-	38 3+	42 4-	49 4-	46 4-	41 4-	38 3+	45 4-	47	30-	34	35-
5	40	27	23	43	33		28 3o	14 2o	21 3-	32 3o	35 3+	51 4o	36 3+	48 4-	33	25o	19	27-
6	50	45	36	60	48		54 4o	25 3-	40 3+	34 3+	58 4o	60 4o	36 3+	59 4o	46	29-	27	32-
7	30	22	31	21	26		40 3+	25 3-	20 2+	34 3+	22 3-	10 1+	27 3o	32 3o	26	22-	15	23+
8	18	22	9	31	20	*	8 1+	7 1o	13 2-	9 1+	21 3-	35 3+	27 3o	21 3-	18	17o	8	16o
9	24	16	18	22	20		12 2-	22 3-	21 3-	9 1+	12 2-	13 2-	19 2+	38 3+	18	17+	11	19+
10	35	26	19	41	30		9 1+	22 3-	25 3-	25 3-	40 3+	36 3+	29 3o	52 4o	30	23o	16	24o
11	20	21	24	17	21		29 3o	18 2+	29 3o	24 3-	16 2o	38 3+	16 2o	10 1+	23	20-	12	20o
12	15	16	14	17	16	*	21 3-	10 1+	11 2-	13 2-	14 2o	10 1+	14 2o	36 3+	16	16o	8	16+
13	23	29	31	21	26		45 4-	27 3o	23 3-	24 3-	38 3+	10 1+	14 2o	11 2-	24	20+	14	21o
14	41	44	31	54	43		16 2o	18 2+	47 4-	47 4-	73 5-	26 3-	49 4-	39 3+	39	26o	23	28-
15	56	43	48	51	49		72 5-	37 3+	44 4-	41 4-	43 4-	45 4-	39 3+	38 3+	45	29+	26	31o
16	52	45	33	64	49		19 2+	19 2+	15 2o	46 4-	60 4o	51 4o	81 5-	45 4-	42	27-	31	32-
17	64	49	42	72	57		22 3-	43 4-	67 4+	35 3+	97 5o	48 4-	46 4-	103 5o	58	31+	42	37o
18	46	36	49	34	41		48 4-	56 4o	44 4-	55 4o	57 4o	21 3-	16 2o	27 3o	41	27o	28	31-
19	27	17	23	21	22		31 3o	35 3+	21 3-	17 2+	19 2+	19 2+	20 2+	16 2o	22	20+	12	21o
20	54	40	31	63	47		7 1o	24 3-	33 3o	48 4-	61 4+	62 4+	49 4-	63 4+	43	27o	25	29-
21	47	49	58	39	49		56 4o	58 4o	46 4-	61 4+	50 4-	13 2-	31 3o	65 4+	48	29-	30	32o
22	35	22	35	22	28		32 3o	29 3o	47 4-	38 3+	22 3-	8 1+	16 2o	38 3+	29	22+	16	24-
23	42	35	40	37	38		43 4-	15 2o	44 4-	61 4+	25 3-	30 3o	40 3+	32 3o	36	26-	22	28o
24	11	12	17	7	12	C *	23 3-	11 2-	24 3-	20 2+	5 1-	8 1+	6 1o	2 0+	12	13-	6	12+
25	7	7	6	8	7	CC *	3 0+	6 1o	7 1o	1 0o	2 0+	9 1+	6 1o	6 1o	5	6o	3	6+
26	18	13	11	21	16	*	2 0+	20 2+	11 2-	15 2o	10 1+	13 2-	21 3-	29 3o	15	15o	8	14+
27	47	44	54	37	46		67 4+	23 3-	67 4+	47 4-	38 3+	52 4o	33 3o	33 3o	45	28+	25	30+
28	46	39	35	50	42		42 4-	42 4-	58 4o	14 2o	15 2o	50 4-	48 4-	68 4+	42	27o	27	30o
29	73	34	39	68	53		52 4o	53 4o	37 3+	18 2+	38 3+	42 4-	83 5-	67 4+	49	30-	37	35+
30	66	49	52	63	57		65 4+	36 3+	48 4-	36 3+	39 3+	53 4o	54 4o	89 5o	53	31o	39	36+
31	57	51	35	74	54		28 3o	29 3o	30 3o	52 4o	90 5o	105 5+	76 5-	50 4-	58	32-	43	35+

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) MAR 2003



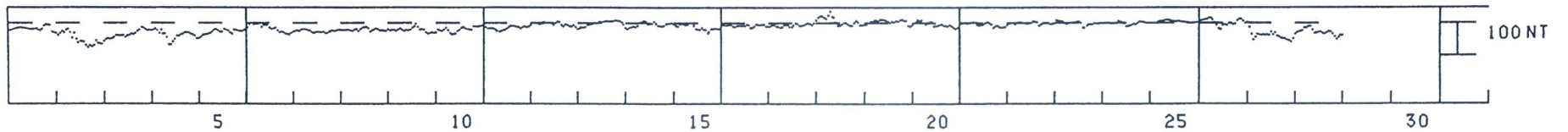
ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) MAR-MAY 2003



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - February 2003 -

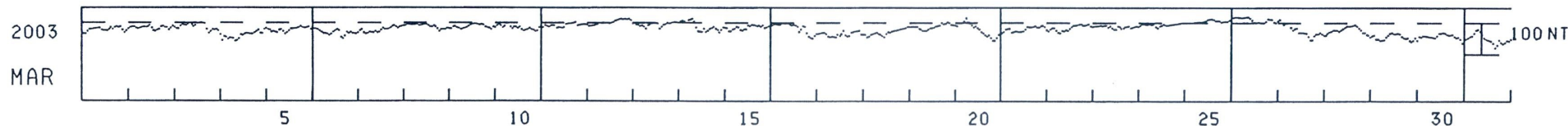
DAY	UNIT=NT																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-22	-20	-18	-15	-13	-14	-13	-14	-15	-17	-18	-17	-18	-16	-19	-22	-17	-8	-3	-5	-6	-27	-28	-30
2	-38	-31	-24	-28	-20	-18	-29	-45	-31	-50	-61	-55	-58	-59	-69	-75	-69	-74	-68	-53	-62	-65	-65	-57
3	-49	-48	-50	-48	-43	-38	-37	-39	-39	-38	-43	-40	-37	-32	-36	-30	-24	-21	-11	-14	-18	-23	-19	-23
4	-19	-16	-22	-30	-21	-33	-33	-44	-66	-67	-58	-50	-40	-39	-36	-32	-29	-28	-29	-33	-34	-39	-47	-47
5	-43	-37	-36	-36	-32	-30	-26	-20	-18	-23	-26	-26	-18	-19	-22	-29	-32	-20	-19	-22	-24	-24	-19	-16
6	-13	-4	0	-3	-2	-2	-2	-12	-6	-5	-5	-13	-18	-16	-14	-22	-29	-27	-29	-33	-32	-34	-30	-26
7	-25	-22	-24	-21	-18	-18	-19	-22	-26	-31	-29	-26	-27	-28	-27	-30	-30	-26	-24	-23	-24	-23	-20	-21
8	-22	-23	-19	-21	-22	-24	-20	-17	-24	-18	-13	-12	-12	-15	-26	-23	-19	-16	-18	-23	-22	-23	-24	-18
9	-22	-20	-20	-25	-19	-16	-20	-24	-21	-22	-19	-13	-9	-2	-12	-21	-18	-20	-28	-32	-31	-28	-30	-28
10	-21	-22	-25	-19	-13	-23	-31	-34	-33	-33	-25	-19	-14	-12	-16	-17	-19	-20	-9	-10	-9	-10	-7	-8
11	-12	-15	-15	-15	-15	-19	-25	-27	-25	-23	-21	-16	-11	-7	-8	-9	-10	-12	-16	-12	-9	-11	-10	-5
12	0	0	1	-1	-4	-1	3	2	2	2	0	-5	0	6	4	-6	-9	-4	-5	-9	-10	-5	-11	-17
13	-15	-12	-13	-12	-6	-5	-4	-1	0	2	6	4	6	8	7	6	6	8	9	7	8	4	-3	-13
14	-18	-14	-11	-9	-11	-7	0	4	7	5	-3	-2	-2	5	-2	-8	-8	-10	-8	-2	-1	-2	0	-3
15	-7	-10	-3	-2	-4	-5	-4	1	1	-7	-17	-18	-21	-14	-19	-21	-30	-26	-18	-18	-16	-16	-18	-15
16	-6	-7	-7	-5	-6	-10	-11	-7	-7	-8	-8	-7	-3	-6	-13	-13	-9	-3	-3	-5	-3	-4	-10	-9
17	-10	-5	-5	-9	-10	-14	-12	-5	-5	-5	-11	-11	-6	2	-2	-7	-7	-6	-1	0	-2	-5	0	9
18	19	23	22	18	14	24	37	21	18	4	-8	-8	-4	1	0	-4	-7	-8	1	7	3	-6	-6	-6
19	-3	0	5	6	10	9	8	11	12	11	9	6	2	5	4	7	5	10	11	8	7	-7	-10	-6
20	1	6	11	8	10	0	-4	-2	4	5	-9	-10	-8	-5	-4	-7	-7	-9	-6	-9	-13	-18	-13	-7
21	-2	-1	0	-2	0	0	3	3	-5	-7	-5	-5	0	4	1	-4	-13	-10	-8	-12	-14	-12	-11	-5
22	-1	2	0	-3	2	3	4	2	1	-1	1	2	6	6	3	-7	-4	2	2	2	0	-3	-2	2
23	9	8	7	6	2	-1	0	1	2	3	3	6	2	-14	-13	-7	-4	-4	-3	0	-2	-2	2	0
24	0	1	1	0	-1	-1	2	7	5	3	-1	-9	-9	-7	-6	-1	-3	1	5	5	3	0	0	0
25	0	1	2	5	7	8	10	11	12	10	8	7	5	7	6	5	4	3	1	1	0	0	4	6
26	10	11	12	13	18	19	11	4	-5	-15	-18	-5	-3	-5	2	2	-3	-1	9	14	14	7	2	3
27	-12	-32	-51	-44	-33	-36	-38	-35	-37	-35	-37	-27	-34	-29	-39	-42	-45	-47	-47	-52	-53	-59	-48	-33
28	-29	-26	-24	-22	-13	-13	-10	-9	-21	-31	-29	-29	-27	-30	-32	-28	-25	-26	-32	-42	-49	-43	-37	-37

2003
FEB



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - March 2003 -

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	
1	-34	-34	-27	-21	-19	-18	-18	-15	-15	-23	-24	-25	-24	-19	-14	-19	-13	-12	-14	-12	-23	-31	-25	-17
2	-14	-12	-12	-15	-17	-15	-14	-12	-13	-11	-8	-16	-24	-26	-23	-19	-11	-10	-14	-14	-23	-16	-10	-13
3	-17	-17	-10	-6	-7	-7	-4	1	-5	-12	-7	-1	2	1	-2	-21	-33	-26	-19	-22	-20	-24	-38	
4	-55	-44	-46	-51	-48	-47	-49	-58	-55	-49	-38	-40	-36	-32	-36	-34	-34	-31	-26	-23	-32	-32	-20	-16
5	-20	-22	-28	-27	-29	-30	-23	-19	-26	-34	-31	-25	-17	-18	-17	-16	-13	-9	-13	-15	-13	-12	-20	-16
6	-17	-17	-19	-25	-29	-32	-33	-34	-39	-36	-29	-24	-19	-25	-45	-49	-42	-28	-32	-29	-32	-33	-35	-30
7	-25	-21	-31	-35	-33	-28	-30	-30	-27	-31	-29	-22	-16	-19	-20	-17	-13	-9	-8	-11	-15	-11	-9	-7
8	-8	-4	-5	-5	-6	-5	-4	-7	-8	-6	-4	-4	-8	-12	-12	-7	-11	-17	-26	-21	-20	-20	-16	-18
9	-17	-11	-10	-13	-16	-19	-18	-16	-13	-10	-5	-3	-2	-2	-4	-6	-3	-5	-11	-14	-15	-20	-12	-13
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13	0	-5	-6	-10	-8	-12	-18	-8	-5	-1	0	1	-1	-17	-11	-5	-3	0	-1	1	4	4	4	2
14	5	8	5	2	10	12	14	6	-14	-26	-29	-29	-18	-28	-25	-17	-15	-12	-18	-23	-30	-23	-14	-13
15	-15	-26	-27	-20	-18	-12	-13	-23	-24	-21	-19	-8	-9	-5	-5	-7	-10	-7	-12	-8	-15	-13	-9	-8
16	-8	-3	-5	-6	-5	-2	-2	-2	-2	-6	-7	-6	-7	-12	-29	-21	-10	-12	-33	-43	-48	-49	-41	-35
17	-35	-32	-30	-31	-35	-44	-45	-43	-45	-45	-38	-42	-34	-25	-40	-44	-42	-30	-29	-27	-26	-25	-38	-37
18	-38	-45	-43	-37	-34	-32	-30	-36	-38	-41	-46	-35	-29	-30	-27	-25	-24	-23	-21	-18	-18	-16	-11	-11
19	-11	-11	-12	-11	-18	-21	-24	-24	-24	-19	-15	-15	-13	-9	-10	-7	0	-3	-2	3	0	-5	-5	-7
20	-9	-2	-1	1	5	15	3	-2	-7	-14	-10	-15	-21	-29	-33	-39	-44	-39	-48	-57	-55	-47	-38	-28
21	-32	-28	-21	-17	-18	-31	-28	-26	-28	-28	-29	-27	-19	-12	-14	-13	-12	-10	-13	-13	-9	-7	-12	-22
22	-26	-19	-15	-16	-24	-31	-33	-25	-26	-23	-24	-17	-12	-7	-7	-6	-4	-3	-7	-7	-5	-4	-9	-11
23	-10	-10	-9	-8	-9	-7	-8	-13	-9	-15	-20	-19	-10	-12	-18	-16	-12	-12	-10	-15	-13	-11	-9	-11
24	-7	-3	-3	-6	-6	-4	-5	-4	-11	-15	-10	-7	-4	-6	-7	-6	-5	-4	-4	-4	-2	1	2	0
25	0	2	0	2	2	3	4	4	4	5	7	11	13	13	11	7	7	8	3	5	6	6	10	13
26	17	21	20	18	17	18	19	21	20	16	9	4	2	4	2	0	1	5	14	11	12	4	1	7
27	11	1	-5	-1	2	1	-14	-23	-17	-15	-31	-30	-30	-30	-33	-43	-54	-53	-41	-35	-34	-30	-35	-40
28	-40	-33	-28	-27	-23	-22	-22	-27	-23	-18	-14	-9	-9	-10	-7	-5	-10	-15	-23	-30	-31	-38	-40	-45
29	-42	-40	-51	-52	-56	-55	-54	-46	-39	-32	-31	-34	-34	-33	-35	-44	-47	-49	-48	-55	-60	-57	-47	-55
30	-44	-46	-41	-41	-43	-43	-45	-46	-48	-42	-32	-32	-30	-33	-38	-39	-37	-37	-44	-48	-45	-51	-64	-57
31	-52	-47	-43	-42	-32	-23	-20	-26	-37	-47	-51	-54	-55	-59	-64	-79	-71	-54	-62	-66	-63	-57	-59	-51



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for March 2003.