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 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
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PRELIMINARY REPORT ON RAPID VARIATIONS

JULY 2003

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

None

02 0713-0719 BDV+
 02 0723-0732 NGK+
 17 0740-0748 NGK+
 17 0819-0825 BDV
 30 0408-0415 HTY+

REPORTING OBSERVATORIES (up to 05/09/2003) :

SOD NUR NGK VAL 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 2003	8	9	22	21A	10A	11	16	12	29	31

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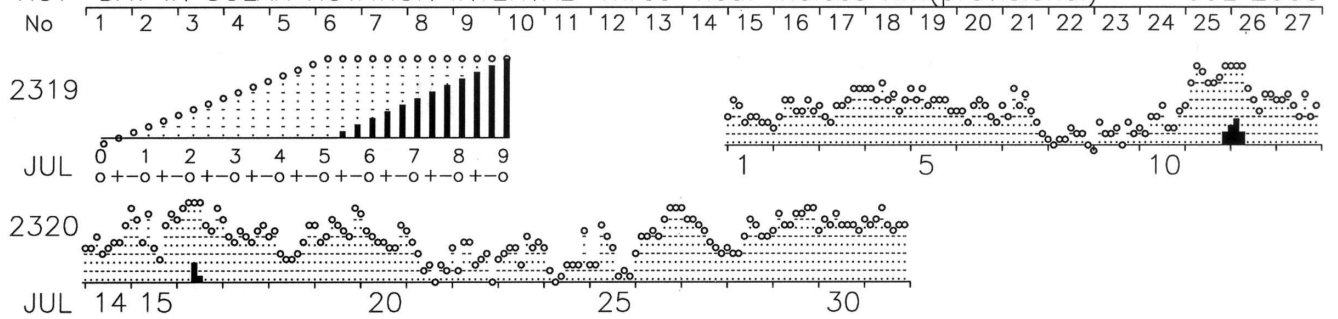
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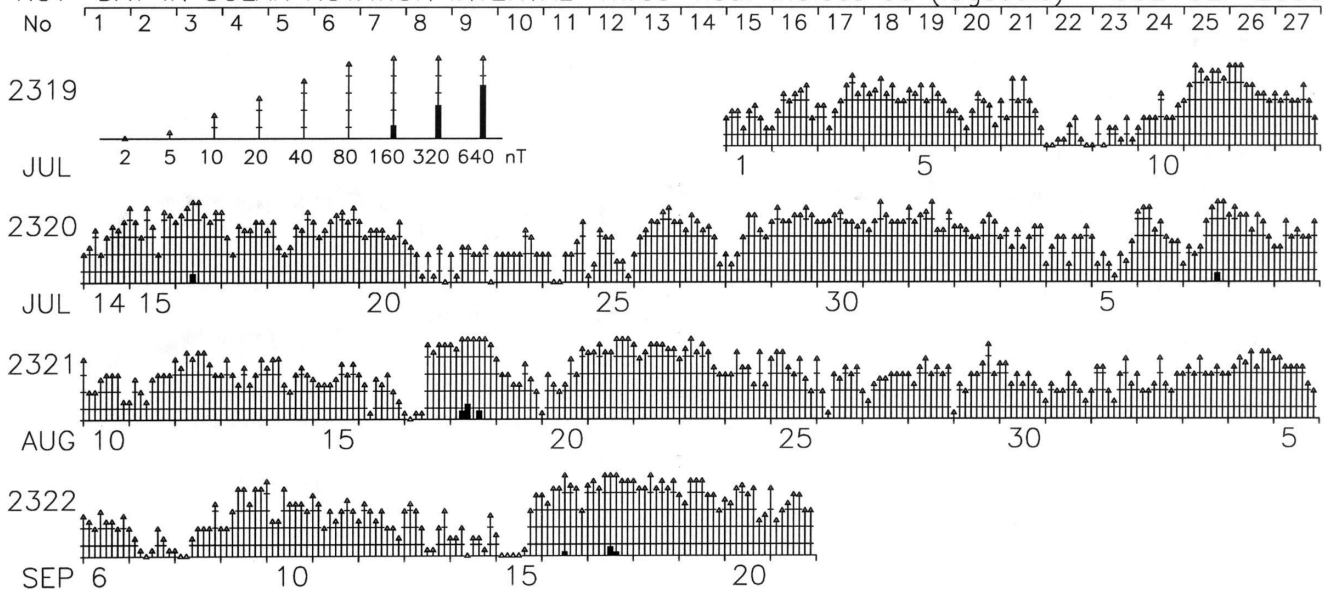
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

JULY 2003		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	Am	Σ Km	Ap	Σ Kp
1	15	12	13	14	14	C	16 2o	30 3o	23 3-	13 2-	16 2o	14 2o	13 2-	12 2-	17	17-	8	16+
2	29	22	20	32	26		10 1+	14 2o	30 3o	29 3o	20 2+	19 2+	27 3o	18 2+	21	19+	12	21-
3	39	19	16	42	29		21 3-	15 2o	13 2-	21 3-	24 3-	30 3o	42 4-	47 4-	27	22o	19	25-
4	45	30	43	31	37		42 4-	45 4-	29 3o	52 4o	32 3o	36 3+	19 2+	30 3o	36	26o	22	29-
5	38	26	35	29	32		42 4-	31 3o	41 4-	26 3-	29 3o	31 3o	28 3o	20 2+	31	24+	18	26o
6	20	14	13	21	17		17 2+	18 2+	13 2-	21 3-	28 3o	21 3-	14 2o	11 2-	18	18+	9	18o
7	29	27	30	27	28		23 3-	15 2o	42 4-	26 3-	34 3+	17 2+	13 2-	7 1o	22	19+	11	19o
8	8	3	4	7	5	CK *	4 1-	3 0+	4 1-	5 1-	10 1+	6 1o	7 1o	2 0+	5	6o	3	5+
9	8	5	6	8	7	CC *	1 0o	12 2-	7 1o	6 1o	8 1+	3 0+	13 2-	6 1o	7	8o	4	8-
10	18	12	11	19	15	*	9 1+	7 1o	14 2o	14 2o	24 3-	9 1+	10 1+	17 2+	13	14o	7	14+
11	71	62	63	70	66		25 3-	55 4o	95 5o	76 5-	60 4o	60 4o	65 4+	129 6-	71	34+	52	40o
12	64	57	88	33	61		154 6o	188 6+	123 6-	44 4-	32 3o	17 2+	39 3+	34 3+	79	34-	43	35+
13	33	21	28	26	27		32 3o	28 3o	39 3+	25 3-	16 2o	35 3+	14 2o	21 3-	26	22o	13	22o
14	31	21	18	35	26		18 2+	20 2+	28 3o	15 2o	19 2+	25 3-	26 3-	48 4-	25	21o	14	22-
15	64	38	57	44	51		83 5-	53 4o	21 3-	65 4+	18 2+	11 2-	47 4-	68 4+	46	28-	28	30o
16	79	69	80	68	74		56 4o	74 5-	87 5o	170 6o	111 5+	44 4-	37 3+	84 5-	83	37-	48	39o
17	42	32	35	39	37		60 4o	27 3o	22 3-	37 3+	31 3o	26 3-	35 3+	46 4-	36	26-	18	25+
18	40	24	26	38	32		32 3o	35 3+	14 2o	12 2-	11 2-	16 2o	23 3-	43 4-	23	20o	15	22o
19	57	43	37	63	50		47 4-	21 3-	30 3o	54 4o	46 4-	38 3+	32 3o	83 5-	44	28o	30	32-
20	33	32	34	31	32		62 4+	34 3+	30 3o	23 3-	24 3-	17 2+	19 2+	42 4-	31	24+	17	25+
21	14	8	13	9	11	C *	38 3+	26 3-	15 2o	6 1o	10 1+	2 0+	10 1+	6 1o	14	13o	7	13-
22	13	10	12	11	11	CC *	18 2+	7 1o	21 3-	21 3-	9 1+	12 2-	16 2o	3 0+	13	14o	6	13o
23	18	14	12	20	16	K	13 2-	16 2o	19 2+	17 2+	10 1+	27 3o	19 2+	25 3-	18	18-	9	18-
24	20	10	7	22	15		17 2+	7 1o	3 0+	5 1-	9 1+	9 1+	10 1+	36 3+	12	12-	7	13o
25	17	12	17	12	15		10 1+	9 1+	48 4-	27 3o	19 2+	4 1-	7 1o	5 1-	16	14o	8	14+
26	52	36	29	59	44		16 2o	29 3o	32 3o	38 3+	33 3o	55 4o	83 5-	74 5-	45	28-	33	31o
27	39	32	46	25	35		84 5-	56 4o	52 4o	45 4-	35 3+	22 3-	20 2+	15 2o	41	27-	22	27+
28	29	28	14	44	29		17 2+	15 2o	15 2o	33 3o	51 4o	42 4-	30 3o	28 3o	29	23o	21	25+
29	62	56	54	64	59		38 3+	64 4+	43 4-	45 4-	61 4+	68 4+	81 5-	80 5-	60	33o	38	36-
30	52	46	49	49	49		37 3+	51 4o	49 4-	68 4+	47 4-	41 4-	46 4-	40 3+	47	30-	27	32o
31	57	48	56	49	52		59 4o	49 4-	51 4o	83 5-	46 4-	36 3+	45 4-	47 4-	52	31-	35	35o

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



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUL-SEP 2003



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - June 2003 -

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	-25	-21	-21	-23	-22	-24	-21	-22	-23	-19	-17	-13	-14	-18	-19	-12	-8	-7	-8	-22	-31	-27	-19	-9
2	-4	-5	-5	-10	-21	-24	-41	-86	-90	-74	-60	-57	-58	-53	-46	-43	-40	-41	-36	-33	-35	-34	-29	-33
3	-27	-22	-21	-18	-26	-26	-23	-21	-20	-19	-24	-21	-19	-22	-23	-20	-20	-14	-12	-11	-12	-17	-24	-21
4	-23	-23	-22	-17	-19	-19	-16	-20	-20	-20	-24	-28	-27	-23	-23	-20	-19	-21	-17	-20	-18	-15	-15	-15
5	-17	-19	-20	-20	-17	-13	-10	-12	-13	-12	-7	-10	-7	-11	-12	-9	-11	-13	-15	-13	-9	-7	-10	-10
6	-5	-2	-5	-11	-11	-9	-9	-8	-6	-5	-6	-4	-5	-7	-6	-6	-8	-11	-10	-11	-5	-4	-3	-1
7	1	1	-2	-7	-9	-3	1	-7	-2	3	2	-4	-10	-12	-10	-14	-10	-9	-5	1	5	-10	-8	-4
8	1	2	1	-9	-19	-17	-10	-7	-7	-7	-7	7	-5	-13	-15	-20	-22	-31	-30	-27	-23	-28	-38	-35
9	-26	-19	-24	-30	-27	-28	-34	-30	-25	-24	-25	-31	-23	-18	-14	-11	-11	-9	-12	-8	-10	-14	-27	-37
10	-20	-13	-12	-11	-11	-15	-18	-22	-28	-23	-18	-24	-27	-27	-25	-17	-16	-14	-10	-3	-5	-7	-7	-8
11	-3	-3	-6	-10	-12	-9	-10	-16	-13	-9	-8	-10	-12	-17	-16	-14	-13	-8	-3	-9	-6	-6	0	0
12	2	5	4	2	-1	4	8	10	11	9	3	0	-2	-1	2	1	1	4	4	4	3	1	3	6
13	7	7	8	6	4	4	8	7	6	4	4	5	5	10	10	11	16	18	24	19	10	4	5	4
14	5	12	15	16	6	-15	-23	-28	-29	-32	-26	-19	-6	5	-2	5	-5	-9	-13	-16	-21	-18	-13	-10
15	-7	-7	-3	-1	-13	-28	-22	-18	-15	-12	-7	-4	-6	-4	1	4	2	-1	-1	-2	-7	-8	-1	-1
16	1	8	2	-2	5	14	13	7	9	8	-9	-26	-31	-39	-48	-54	-55	-53	-51	-43	-47	-49	-51	-45
17	-45	-33	-37	-37	-49	-57	-59	-76	-85	-80	-80	-77	-59	-57	-55	-55	-41	-33	-29	-25	-39	-45	-45	-37
18	-32	-33	-31	-38	-48	-51	-74	-116	-137	-145	-125	-97	-91	-90	-89	-83	-83	-78	-68	-65	-73	-70	-61	-51
19	-53	-50	-47	-46	-45	-47	-60	-59	-51	-43	-44	-41	-41	-39	-38	-36	-39	-38	-38	-32	-32	-29	-26	-27
20	-28	-26	-27	-23	-20	-19	-20	-19	-11	-6	-10	-9	-13	-14	-15	-22	-23	-22	-21	-18	-16	-16	-12	-12
21	-17	-22	-30	-34	-31	-35	-47	-50	-47	-46	-37	-28	-28	-29	-30	-27	-33	-36	-29	-27	-33	-34	-33	-33
22	-26	-21	-16	-15	-14	-12	-15	-25	-27	-25	-25	-20	-17	-18	-18	-14	-15	-20	-25	-25	-26	-25	-27	-31
23	-28	-24	-20	-15	-9	-14	-16	-19	-16	-17	-22	-19	-19	-18	-21	-22	-14	-16	-14	-14	-16	-11	-9	-9
24	-13	-17	-23	-28	-28	-36	-39	-47	-44	-32	-35	-50	-57	-56	-50	-45	-41	-36	-34	-32	-32	-27	-21	-22
25	-20	-18	-14	-13	-15	-15	-16	-18	-13	-14	-19	-16	-19	-20	-15	-18	-25	-27	-21	-23	-25	-22	-14	-11
26	-11	-8	-7	-7	-17	-14	-7	-5	-6	-15	-16	-14	5	20	12	6	8	7	5	5	5	3	2	4
27	7	5	8	11	-5	-4	-3	-17	-22	-18	-12	-12	-25	-29	-35	-28	-27	-23	-22	-16	-20	-20	-19	-20
28	-16	-6	-2	-12	-20	-24	-17	-14	-8	-16	-20	-10	-10	-18	-36	-34	-32	-26	-24	-20	-17	-20	-22	-22
29	-24	-19	-10	-9	-12	-11	-14	-16	-17	-28	-22	-18	-21	-22	-23	-22	-16	-13	-13	-10	-13	-18	-18	-20
30	-13	-10	-12	-15	-13	-15	-8	-12	-15	-16	-17	-13	-13	-13	-13	-14	-14	-13	-11	-9	-11	-13	-8	-8

