

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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

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PRELIMINARY REPORT ON RAPID VARIATIONS

NOVEMBER 2002

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

09 17 51	A: HER B: NUR NAG* GUI C: NGK* VAL* BDV* CLF HRB* EBR SPT
09 18 49	A: NAG* SPT* B: VAL* CLF* HRB* EBR* GUI HYB ETT C: SOD* NGK* BDV* GCK HTY
11 12 31	B: HRB HYB ETT C: NGK* GCK
20 11 08	B: SOD* MMB KAK KNY C: BDV HRB GCK EBR GUI HYB ETT (SFE: NGK)
26 21 50	A: VAL* NAG* SPT* GUI* HER* B: NUR CLF HRB* GCK MMB EBR* KAK HTY* KNY C: NGK BDV*

01	1134-1144	NGK
08	0930-1002	GUI
09	1310-1342	NGK BDV
18	0203-0242	MMB KAK HTY KNY
20	1108-1115	NGK (See SSC)
24	0810-0824	NGK

REPORTING OBSERVATORIES (up to 07/01/2003) :

SOD NUR NGK VAL BDV CLF HRB NAG GCK MMB EBR SPT KAK HTY KNY GUI HYB ETT HER

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
November 2002	8	9K	16A	1A	17A	21	3	2	22	5

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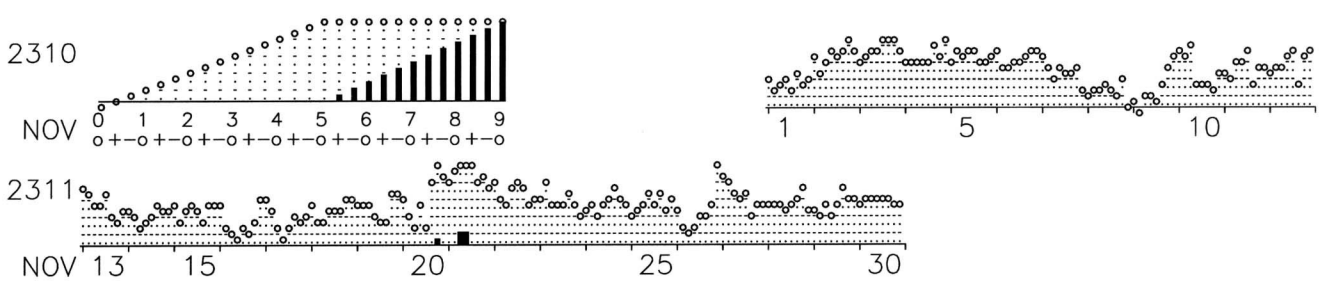
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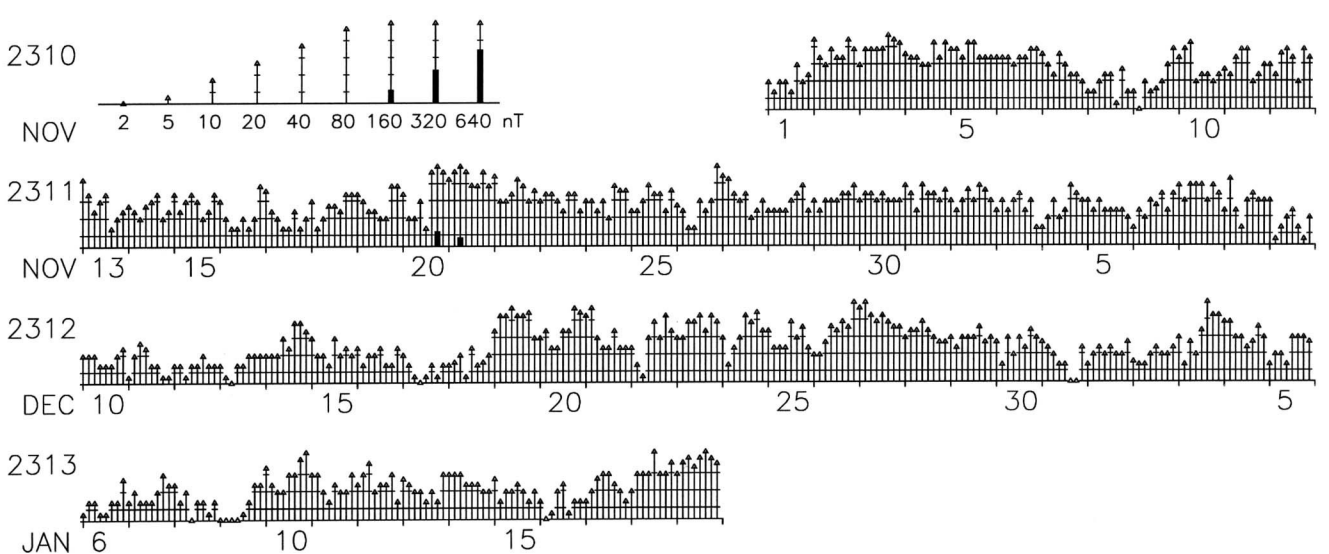
Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

NOVEMBER 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	16	10	11	15	13	C *	14 2o	8 1+	12 2-	15 2o	10 1+	20 2+	12 2-	14 2o	13	14+	7	15-			
2	54	33	42	44	43		40 3+	19 2+	32 3o	44 4-	40 3+	41 4-	69 4+	46 4-	41	27+	28	32-			
3	68	35	40	63	51		27 3o	40 3+	42 4-	42 4-	63 4+	65 4+	61 4+	46 4-	48	30+	35	35+			
4	40	35	31	44	37		27 3o	29 3o	30 3o	28 3o	32 3o	51 4o	39 3+	61 4+	37	27-	23	29+			
5	45	39	45	39	42		28 3o	44 4-	39 3+	47 4-	45 4-	32 3o	27 3o	38 3+	38	27-	24	30-			
6	38	30	30	39	34		41 4-	24 3-	26 3-	30 3o	28 3o	38 3+	49 4-	42 4-	35	25-	21	29-			
7	28	17	29	17	23		37 3+	25 3-	15 2o	25 3-	17 2+	17 2+	22 3-	10 1+	21	19+	13	22-			
8	14	9	11	12	12	C C *	7 1o	9 1+	8 1+	13 2-	10 1+	6 1o	14 2o	3 0+	9	10o	5	10-			
9	15	15	8	23	15	*	5 1-	1 0o	6 1o	6 1o	5 1-	13 2-	21 3-	38 3+	12	11o	6	10+			
10	24	28	37	15	26		42 4-	37 3+	56 4o	12 2-	12 2-	13 2-	10 1+	19 2+	25	20-	17	23-			
11	28	24	28	24	26		18 2+	14 2o	30 3o	32 3o	42 4-	12 2-	21 3-	23 3-	24	21o	12	20+			
12	30	31	31	30	31		17 2+	22 3-	25 3-	34 3+	47 4-	11 2-	40 3+	41 4-	30	23+	17	24o			
13	26	24	33	17	25		46 4-	37 3+	21 3-	25 3-	40 3+	14 2o	13 2-	18 2+	27	22-	13	21o			
14	21	17	17	21	19		20 2+	14 2o	9 1+	11 2-	15 2o	22 3-	19 2+	18 2+	16	17-	8	17-			
15	24	23	26	21	24		23 3-	13 2-	20 2+	26 3-	19 2+	12 2-	25 3-	25 3-	20	19-	12	21o			
16	18	14	13	19	16	*	22 3-	8 1+	6 1o	4 1-	9 1+	7 1o	11 2-	29 3o	12	13-	7	12+			
17	17	12	18	11	15	*	28 3o	17 2+	10 1+	5 1-	8 1+	14 2o	12 2-	14 2o	14	14+	7	13-			
18	18	23	16	25	21		24 3-	12 2-	12 2-	17 2+	18 2+	17 2+	33 3o	29 3o	20	19o	10	18+			
19	30	20	22	29	25		22 3-	24 3-	23 3-	16 2o	11 2-	12 2-	38 3+	39 3+	23	20o	14	23-			
20	70	34	20	85	52		28 3o	16 2o	9 1+	23 3-	10 1+	56 4o	119 5+	66 4+	41	24o	25	26-			
21	66	78	90	54	72		58 4o	78 5-	135 6-	126 6-	88 5o	56 4o	61 4+	50 4-	82	37o	50	40-			
22	50	28	37	41	39		55 4o	30 3o	25 3-	41 4-	56 4o	49 4-	26 3-	33 3o	39	27-	26	31-			
23	28	24	28	24	26		33 3o	53 4o	26 3-	21 3-	21 3-	34 3+	21 3-	16 2o	28	23o	17	25-			
24	37	18	22	33	27		20 2+	24 3-	15 2o	22 3-	29 3o	42 4-	28 3o	26 3-	26	22o	15	24o			
25	29	26	26	29	27		15 2o	18 2+	22 3-	40 3+	24 3-	39 3+	18 2+	31 3o	26	22-	15	24o			
26	28	26	13	42	27		18 2+	10 1+	7 1o	9 1+	16 2o	14 2o	22 3-	99 5o	24	18-	13	19-			
27	38	29	46	21	33		62 4+	55 4o	36 3+	33 3o	36 3+	14 2o	22 3-	25 3-	35	25+	24	28-			
28	23	22	16	29	23		21 3-	21 3-	23 3-	17 2+	25 3-	32 3o	45 4-	17 2+	25	22o	12	21+			
29	29	26	22	33	28		19 2+	15 2o	25 3-	16 2o	24 3-	44 4-	32 3o	31 3o	26	21+	14	23-			
30	28	26	28	26	27		22 3-	29 3o	33 3o	29 3o	28 3o	31 3o	25 3-	26 3-	28	23o	16	25-			

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

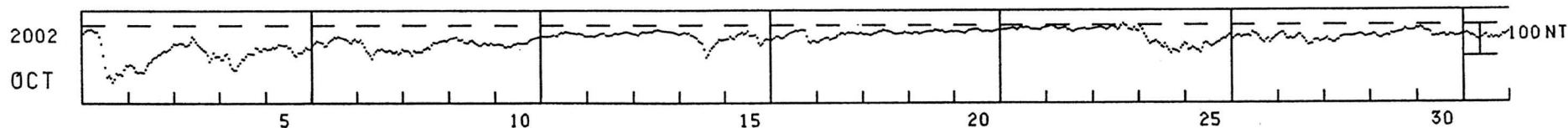


ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV2002-JAN2003



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - October 2002 -

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	24
1	-25	-18	-13	-13	-12	-15	-19	-21	-35	-58	-96	-135	-166	-159	-168	-183	-173	-154	-157	-156	-159	-141	-127	-130
2	-125	-128	-135	-148	-151	-150	-149	-151	-140	-128	-119	-115	-106	-103	-100	-95	-92	-85	-82	-83	-80	-75	-66	-58
3	-61	-60	-57	-55	-58	-64	-64	-60	-51	-36	-42	-51	-60	-66	-74	-80	-84	-94	-116	-104	-89	-101	-99	-99
4	-109	-110	-95	-90	-104	-124	-136	-143	-142	-127	-119	-108	-109	-98	-90	-90	-92	-92	-71	-74	-81	-82	-74	-74
5	-78	-76	-76	-68	-74	-68	-61	-62	-63	-64	-62	-71	-72	-83	-94	-98	-88	-88	-88	-80	-70	-75	-78	-71
6	-62	-57	-50	-51	-53	-57	-66	-65	-54	-48	-43	-37	-39	-34	-38	-39	-41	-44	-48	-53	-57	-47	-44	-50
7	-51	-45	-56	-69	-82	-87	-97	-107	-92	-83	-78	-79	-76	-80	-84	-84	-79	-81	-89	-87	-83	-91	-88	-78
8	-82	-81	-81	-88	-96	-82	-85	-86	-86	-86	-77	-75	-71	-75	-63	-54	-56	-55	-52	-50	-49	-48	-49	-45
9	-42	-42	-40	-38	-45	-47	-46	-54	-57	-57	-49	-47	-51	-57	-60	-64	-64	-58	-56	-61	-62	-57	-60	-62
10	-61	-61	-60	-63	-69	-70	-67	-68	-64	-61	-60	-55	-56	-59	-59	-57	-57	-50	-45	-43	-42	-39	-37	-37
11	-36	-36	-35	-35	-35	-32	-31	-32	-32	-27	-23	-24	-21	-21	-23	-25	-24	-25	-26	-25	-26	-29	-33	-35
12	-34	-32	-32	-34	-33	-30	-27	-24	-25	-31	-33	-33	-31	-27	-25	-26	-26	-25	-23	-21	-21	-23	-25	-26
13	-27	-29	-30	-25	-21	-21	-23	-21	-20	-19	-15	-15	-14	-15	-17	-17	-18	-19	-19	-21	-22	-25	-26	-29
14	-27	-25	-23	-26	-25	-31	-33	-38	-41	-50	-54	-58	-77	-102	-94	-82	-74	-66	-59	-54	-46	-48	-48	-45
15	-44	-43	-36	-42	-43	-35	-28	-27	-22	-29	-24	-18	-32	-32	-33	-31	-39	-57	-64	-59	-48	-44	-46	-48
16	-46	-41	-36	-36	-40	-42	-39	-32	-29	-25	-23	-20	-16	-17	-15	-14	-14	-16	-35	-51	-57	-50	-50	-54
17	-53	-47	-46	-41	-40	-39	-45	-43	-41	-40	-33	-28	-24	-25	-28	-25	-23	-24	-23	-25	-26	-26	-22	-26
18	-28	-27	-28	-31	-28	-25	-24	-21	-18	-17	-14	-15	-17	-18	-20	-24	-26	-26	-27	-25	-25	-21	-23	-25
19	-25	-26	-23	-22	-22	-26	-24	-22	-19	-20	-18	-17	-17	-14	-14	-16	-17	-16	-20	-22	-20	-20	-18	-19
20	-17	-18	-19	-19	-22	-24	-19	-15	-14	-14	-12	-12	-11	-16	-21	-18	-17	-17	-18	-19	-17	-16	-13	-13
21	-13	-13	-12	-12	-12	-10	-8	-10	-13	-9	-6	-7	-7	-6	-8	-11	-12	-12	-12	-14	-13	-9	-8	-5
22	-5	-3	-1	-3	-7	-11	-11	-10	-7	-7	-13	-13	-18	-21	-15	-13	-12	-12	-12	-9	-14	-13	-11	-12
23	-10	-9	-7	-5	-7	-9	-13	-12	-8	-4	-3	-8	-14	-10	-2	6	2	-1	-12	-14	-15	-7	-16	-17
24	-6	-14	-28	-39	-51	-61	-56	-54	-49	-55	-61	-69	-73	-61	-70	-82	-90	-79	-82	-84	-89	-76	-66	-58
25	-63	-80	-77	-71	-76	-80	-82	-88	-76	-60	-56	-58	-64	-68	-64	-61	-55	-54	-48	-44	-43	-37	-31	-35
26	-43	-37	-32	-33	-40	-35	-35	-34	-33	-38	-23	-27	-29	-34	-45	-51	-55	-47	-44	-55	-48	-44	-38	-33
27	-29	-25	-24	-32	-44	-45	-42	-45	-43	-37	-31	-31	-40	-46	-56	-64	-62	-60	-49	-47	-47	-53	-51	-50
28	-46	-42	-49	-51	-57	-55	-49	-47	-40	-38	-34	-34	-36	-36	-34	-34	-32	-31	-28	-31	-36	-37	-35	-33
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31	-28	-27	-31	-34	-36	-40	-46	-47	-44	-41	-34	-33	-44	-45	-40	-45	-42	-41	-45	-39	-30	-33	-29	-25



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - November 2002 -

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	-19	-17	-17	-20	-21	-22	-19	-18	-21	-18	-14	-14	-13	-9	-8	-7	-10	-9	-13	-15	-9	-8	-3	-9
2	-15	-15	-12	-22	-22	-29	-33	-40	-40	-44	-46	-51	-50	-42	-50	-44	-36	-48	-57	-54	-45	-51	-52	-49
3	-53	-56	-59	-62	-62	-62	-68	-69	-70	-61	-52	-50	-50	-49	-52	-49	-51	-60	-52	-59	-59	-64	-57	-42
4	-45	-45	-42	-47	-58	-56	-48	-52	-58	-53	-55	-50	-57	-65	-56	-52	-53	-41	-40	-43	-47	-40	-38	-40
5	-39	-37	-35	-49	-49	-43	-48	-50	-50	-47	-39	-37	-38	-35	-38	-31	-31	-32	-30	-28	-26	-34	-35	-30
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8	-17	-18	-18	-17	-21	-21	-18	-17	-17	-17	-18	-19	-17	-15	-15	-14	-13	-16	-18	-18	-13	-12	-11	-9
9	-10	-11	-13	-15	-13	-11	-9	-7	-8	-6	-6	-4	-4	-6	-7	-6	-4	-1	6	19	19	21	18	7
10	8	3	2	10	9	-7	-22	-15	-19	-17	-19	-16	-15	-13	-13	-12	-15	-14	-10	-12	-9	-11	-8	-2
11	0	0	0	-10	-11	-7	5	5	-2	-27	-20	-14	-4	-4	-16	-24	-22	-15	-12	-13	-9	-5	-2	4
12	4	8	11	10	2	2	-2	-8	-3	-7	-4	-6	-18	-13	-9	-9	-13	-14	-16	-20	-12	-16	-22	-29
13	-27	-28	-26	-32	-38	-37	-38	-35	-32	-29	-27	-23	-23	-18	-17	-17	-15	-15	-17	-20	-20	-20	-18	-20
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15	-8	-13	-13	-15	-9	-6	-5	-9	-13	-13	-16	-15	-11	-11	-10	-6	-3	-5	-12	-22	-21	-21	-24	-27
16	-23	-20	-15	-12	-9	-8	-7	-7	-8	-9	-9	-7	-9	-9	-8	-8	-7	-6	-8	-13	-16	-17	-16	-10
17	1	4	6	8	6	8	9	7	9	9	8	6	7	7	4	0	-3	-1	1	-1	-4	-7	-9	-10
18	-13	-17	-20	-24	-25	-26	-28	-29	-27	-29	-29	-26	-27	-31	-29	-30	-31	-35	-37	-42	-40	-39	-43	-41
19	-41	-39	-33	-30	-27	-20	-20	-24	-21	-22	-22	-15	-10	-11	-10	-9	-9	-5	-7	-19	-27	-20	-17	-30
20	-38	-35	-31	-32	-28	-27	-26	-28	-27	-26	-24	-14	-9	-6	-2	1	0	-19	-50	-80	-75	-64	-60	-56
21	-39	-25	7	-15	-37	-60	-71	-96	-109	-119	-126	-102	-88	-93	-79	-75	-71	-70	-66	-64	-64	-60	-59	-55
22	-54	-52	-46	-52	-51	-47	-44	-44	-48	-49	-52	-47	-51	-52	-47	-54	-52	-48	-41	-44	-40	-40	-39	-45
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30	-3	-4	-6	-10	-14	-8	-14	-18	-23	-21	-21	-24	-23	-28	-37	-36	-28	-23	-20	-22	-17	-11	-4	-3

