



Bureau des Publications SIIG - Bulletin Mensuel n°98 - 11 - Novembre 1998
ISGI Publications Office Monthly Bulletin n°98 - 11 - November 1998

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

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RELIMINARY REPORT ON RAPID VARIATIONS

NOVEMBER 1998

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

07 08 15 A : WNG* CLF* HRB* BJI
 B : NAG* QUE GNA CNB*
 C : NUR* NGK* BDV* GCK* MMB* COI
 SPT* KAK* HTY* KNY*
 08 04 51 A : WNG* COI GNA* CNB
 C : NGK
 13 01 43 B : CLF HRB COI
 C : GCK QUE
 si: EBR
 30 05 07 A : WNG* CLF HRB* NAG* COI BJI SPT* TEN
 B : BDV* GCK* QUE CNB
 C : NGK* EBR*

01 1113-1119 BDV
 12 0526-0550 KNY+
 18 0850-0908 TEN
 22 0633-0710 KAK+ KNY+ GNA+ CNB+
 23 0635-0721 KAK+ KNY+ GNA+ CNB+
 28 0536-0635 BJI KAK+ KNY+ GNA+ CNB+

REPORTING OBSERVATORIES (up to the 4th of January 1999) :

SOD NUR WNG NGK BDV CLF HRB NAG GCK MMB EBR COI BJI SPT KAK HTY KNY QUE TEN GNA HER CNB

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

November 1998	11	12	1	2	4	9	8	13	14	7
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Directeur de la Publication : J. PARIS - Edité le 25/01/99 par E. LEMAULF

Collaborateurs : J.O. CARDUS - J. GAPIHAN - T. KAMEI - M. MENVIELLE - M. SIEBERT - M. SUGIURA

Bureau des Publications SIIG - fondé par A. BERTHELIER

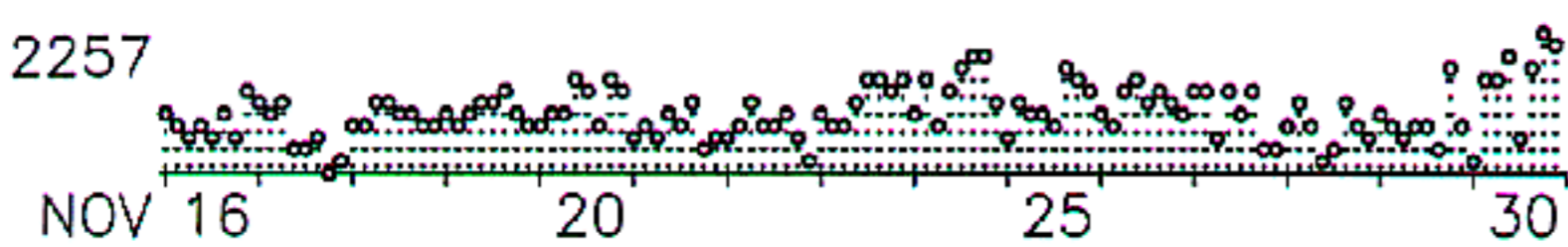
CETP 4, avenue Neptune - 94107 SAINT MAUR DES FOSSES CEDEX - FRANCE

Téléphone : +33 +1 45 11 42 47 -Télécopie : +33 +1 48 89 44 33

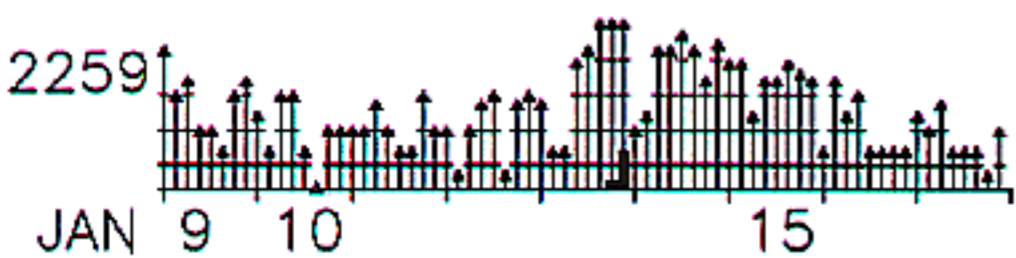
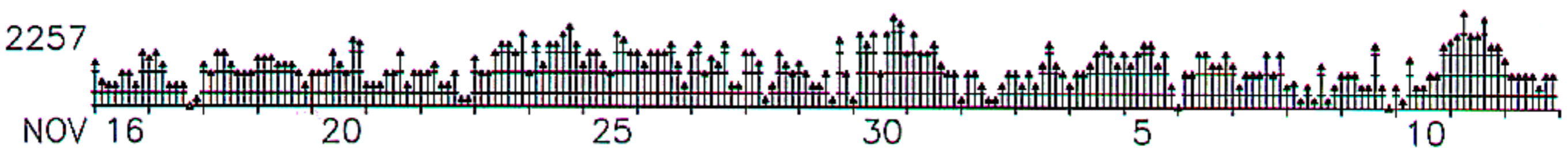
Email : INTERNET : Josette.PARIS@cetp.ipsl.fr

NOVEMBER 1998		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				
1	10	3	7	6	7	CC*	9 1+	6 1o	6 1o	5 1-	3 0+	4 1-	12 2-	8 1+	7	8o	4	7o
2	14	7	10	12	11	CC*	13 2-	10 1+	0 0o	2 0+	8 1+	4 1-	24 3-	9 1+	9	9+	4	9-
3	16	13	12	17	15		9 1+	8 1+	5 1-	14 2o	5 1-	17 2+	16 2o	22 3-	12	13o	6	13-
4	15	11	15	11	13	C *	19 2+	3 0+	12 2-	13 2-	8 1+	15 2o	10 1+	8 1+	11	12o	6	11+
5	20	18	11	27	19		10 1+	6 1o	9 1+	14 2o	22 3-	34 3+	18 2+	18 2+	16	16+	8	16-
6	34	38	29	44	36		20 2+	22 3-	57 4o	33 3o	37 3+	34 3+	39 3+	40 3+	35	25+	20	27+
7	46	46	27	65	46		18 2+	16 2o	25 3-	31 3o	83 5-	70 4+	59 4o	35 3+	42	26+	26	30-
8	73	64	103	33	68		91 5o	202 7-	211 7-	63 4+	51 4o	30 3o	31 3o	46 4-	91	36+	66	39o
9	93	85	95	84	89		62 4+	118 5+	119 5+	156 6o	112 5+	71 5-	122 6-	62 4+	103	41o	75	46o
10	14	8	17	4	11	K	28 3o	17 2+	10 1+	18 2+	5 1-	9 1+	3 0+	1 0o	11	11+	6	11-
11	8	7	8	7	7	CC*	3 0+	2 0+	3 0+	12 2-	6 1o	2 0+	7 1o	11 2-	6	7-	3	5o
12	9	9	8	10	9	C *	2 0+	4 1-	10 1+	4 1-	4 1-	5 1-	10 1+	11 2-	6	7+	4	7-
13	95	83	91	88	89		104 5+	78 5-	91 5o	103 5o	67 4+	97 5o	111 5+	99 5o	94	40-	64	44o
14	68	55	72	51	61		67 4+	82 5-	59 4o	106 5+	97 5o	38 3+	38 3+	20 2+	63	32+	41	36o
15	24	20	11	32	22		7 1o	8 1+	7 1o	21 3-	31 3o	17 2+	37 3+	24 3-	19	17+	10	18-
16	16	9	11	14	12	C	14 2o	12 2-	9 1+	12 2-	8 1+	15 2o	8 1+	25 3-	13	14o	7	15o
17	12	11	17	6	11	C	19 2+	15 2o	17 2+	6 1o	7 1o	9 1+	3 0+	5 1-	10	11o	6	10+
18	15	17	19	13	16		12 2-	13 2-	17 2+	17 2+	16 2o	14 2o	13 2-	13 2-	14	15+	7	16o
19	15	17	19	13	16		15 2o	11 2-	15 2o	20 2+	19 2+	21 3-	16 2o	12 2-	16	17-	7	15o
20	24	15	15	25	20		11 2-	15 2o	15 2o	29 3o	22 3-	13 2-	27 3o	23 3-	19	19-	10	17+
21	13	10	9	14	12	C	10 1+	13 2-	9 1+	14 2o	13 2-	20 2+	7 1o	10 1+	12	13-	6	13o
22	12	8	12	8	10	CC	10 1+	13 2-	18 2+	13 2-	11 2-	14 2o	9 1+	4 1-	12	13-	6	12+
23	30	20	17	33	25		15 2o	11 2-	12 2-	18 2+	29 3o	28 3o	22 3-	32 3o	21	19+	11	20o
24	33	32	23	42	33		16 2o	29 3o	12 2-	24 3-	34 3+	44 4-	50 4-	20 2+	29	22+	16	24o
25	28	21	20	30	25		10 1+	18 2+	16 2o	14 2o	13 2-	38 3+	29 3o	26 3-	21	18+	13	21+
26	19	23	22	20	21		16 2o	13 2-	25 3-	28 3o	18 2+	26 3-	19 2+	15 2o	20	19-	10	19o
27	19	19	22	16	19		23 3-	23 3-	10 1+	21 3-	16 2o	23 3-	7 1o	7 1o	16	16o	9	16+
28	14	18	18	15	16		12 2-	20 2+	13 2-	5 1-	6 1o	19 2+	13 2-	10 1+	12	13-	6	12+
29	20	8	11	17	14		14 2o	11 2-	8 1+	13 2-	11 2-	6 1o	37 3+	13 2-	14	14+	8	15o
30	42	41	32	52	42		4 1-	32 3o	29 3o	45 4-	10 1+	36 3+	63 4+	54 4o	34	23+	19	25-

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) NOV 1998



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV 1998 - JAN 1999

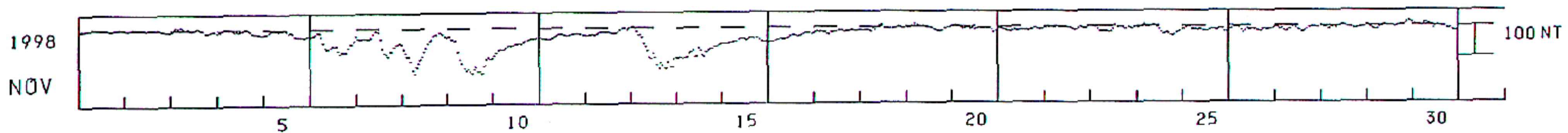


Dst monthly table of hourly indices - November 1998

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

NOVEMBER 1998

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	-7	-6	-3	-1	2	2	4	1	2	1	0	0	-1	0	-1	-2	-3	-2	0	0	1	2	2	1	
2	-2	-3	-1	4	4	3	3	1	3	1	1	0	1	2	1	2	2	0	-3	-5	-5	-7	-7	-8	
3	-5	3	9	6	8	9	5	2	5	0	-4	-1	2	5	4	0	-2	-9	-13	-8	-6	-3	-4	-8	
4	-6	-5	-1	-1	-1	-2	0	-4	-9	-7	-9	-7	-4	-1	2	-2	-6	-12	-15	-16	-17	-18	-19	-19	
5	-18	-16	-10	-5	-3	-4	-4	-7	-3	-3	-2	-6	-12	-12	-16	-26	-27	-27	-27	-27	-29	-26	-25	-24	
6	-26	-22	-19	-13	-14	-26	-45	-61	-67	-67	-62	-56	-58	-57	-72	-82	-77	-78	-76	-61	-49	-49	-40	-25	
7	-34	-38	-36	-33	-35	-36	-36	-31	-17	-9	-9	-12	-35	-67	-81	-84	-92	-77	-76	-61	-54	-52	-48	-53	
8	-68	-80	-92	-92	-107	-136	-148	-125	-113	-102	-94	-79	-66	-51	-42	-39	-26	-22	-22	-16	-16	-21	-27	-30	
9	-27	-38	-39	-42	-40	-78	-103	-115	-130	-139	-132	-140	-148	-132	-126	-140	-141	-147	-145	-122	-103	-98	-104	-100	
10	-91	-83	-75	-72	-73	-72	-67	-62	-60	-61	-58	-54	-52	-51	-52	-47	-44	-41	-39	-36	-35	-36	-33	-32	
11	-33	-35	-36	-36	-38	-37	-35	-33	-28	-24	-22	-23	-25	-27	-27	-25	-22	-23	-21	-21	-23	-23	-26	-25	
12	-27	-26	-24	-23	-25	-22	-19	-15	-14	-14	-14	-14	-15	-18	-19	-18	-16	-10	-6	-3	-4	-8	-3	-1	
13	3	-3	-14	-26	-24	-32	-52	-63	-77	-99	-101	-85	-98	-122	-132	-115	-124	-132	-133	-114	-127	-129	-103	-99	
14	-100	-97	-99	-102	-100	-98	-84	-81	-76	-97	-95	-70	-77	-92	-97	-82	-76	-72	-69	-63	-64	-62	-56	-53	
15	-52	-53	-53	-51	-49	-48	-45	-45	-39	-38	-35	-38	-41	-38	-35	-36	-38	-34	-35	-41	-46	-50	-48	-43	
16	-49	-50	-48	-44	-42	-40	-38	-41	-39	-38	-34	-29	-25	-25	-27	-31	-27	-24	-21	-17	-17	-18	-22	-19	
17	-19	-15	-17	-15	-17	-17	-24	-25	-18	-18	-16	-15	-13	-12	-13	-16	-14	-14	-12	-11	-12	-14	-12	-11	
18	-12	-12	-11	-10	-12	-15	-6	-8	-2	7	7	5	-5	-5	-7	-7	-7	-6	-4	-1	-2	-3	-4	-1	
19	-5	-3	4	8	8	7	4	-1	3	-1	-3	-3	-4	-6	-11	-12	-14	-16	-12	-6	-5	-6	-5	0	
20	1	3	2	2	-5	-9	-7	-6	-6	-8	-7	-10	-8	-6	-6	-7	-6	-5	-5	-5	-11	-19	-16	-9	
21	-5	-7	-8	-10	-14	-14	-15	-16	-12	-15	-15	-12	-12	-13	-12	-14	-10	-10	-6	-5	-8	-10	-9	-6	
22	-6	-4	-4	-3	-5	-6	-1	-3	-4	-6	-5	-5	-3	-5	-9	-12	-11	-8	-4	-5	-9	-9	-2	0	
23	0	-2	-5	-11	-17	-19	-17	-19	-17	-20	-19	-11	1	-3	-4	-4	-4	-9	-8	-4	-5	-9	-4	-2	
24	-6	-2	4	6	-5	-4	-3	-2	3	-2	-6	-13	-20	-27	-25	-22	-25	-30	-32	-29	-24	-21	-18	-13	
25	-10	-6	-2	-3	-12	-13	-12	-14	-10	-12	-16	-15	-16	-16	-13	-12	-13	-16	-11	-9	-11	-20	-20	-18	
26	-12	-10	-6	-4	-5	-7	-16	-22	-18	-11	-14	-12	-11	-12	-16	-17	-19	-13	-11	-14	-12	-10	-9	-6	
27	-5	-9	-14	-10	-17	-21	-16	-12	-5	-4	-8	-14	-15	-20	-20	-18	-12	-7	-4	-3	-3	-6	-3	1	
28	0	-5	-7	-11	-11	-6	-2	-7	-1	1	2	1	0	-4	-5	-6	-9	-10	-8	-7	-6	-5	-3	3	
29	1	-5	-8	-12	-14	-12	-6	-3	3	7	1	0	2	-1	-3	-1	1	3	3	4	9	13	11	9	
30	3	1	1	3	-3	7	8	6	5	1	-10	-3	0	-1	-2	-3	-4	-8	-10	-9	-14	-18	-17	-10	



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for November 1998.