



Bureau des Publications SIIG - Bulletin Mensuel n°99 - 11 - Novembre 1999

ISGI Publications Office Monthly Bulletin n°99 - 11 - November 1999

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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 1999

SSC - Storm Sudden Commencements

05 20 10 C : NGK BDV GCK EBR*

SFE - Solar Flare Effects

02 0927-0936 NGK
04 0108-0124 NAG
06 0854-0909 NGK BDV
14 0756-0806 GNA
16 0237-0310 KNY+
16 0408-0420 MMB+ KAK+
18 0948-1017 NAG
26 0118-0210 MMB+ KAK+ KNY+
26 1341-1400 BDV+ HER
27 1208-1222 NGK BDV+ NAG HER
30 1038-1049 NGK
30 1226-1245 NAG

REPORTING OBSERVATORIES (up to 2nd of January 2000) :

SOD NUR NGK BDV CLF HRB NAG GCK MMB EBR COI BJI SPT KAK KNY QUE LNP HYB GNA HER CNB

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

November 1999

27 26 29 15 4

13 7 8 9 11

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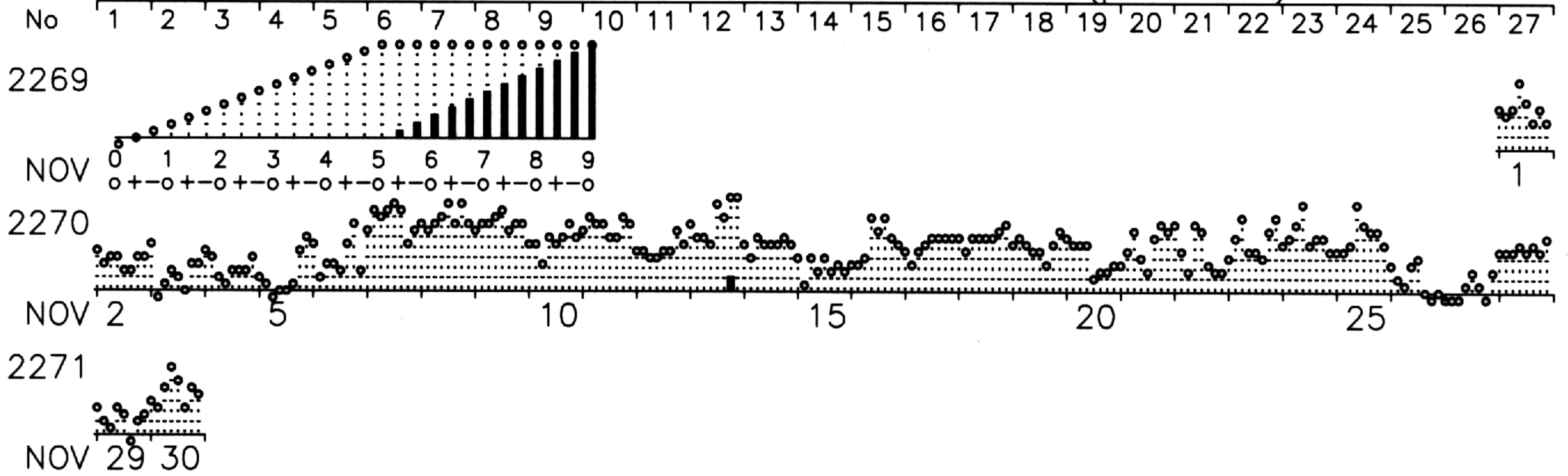
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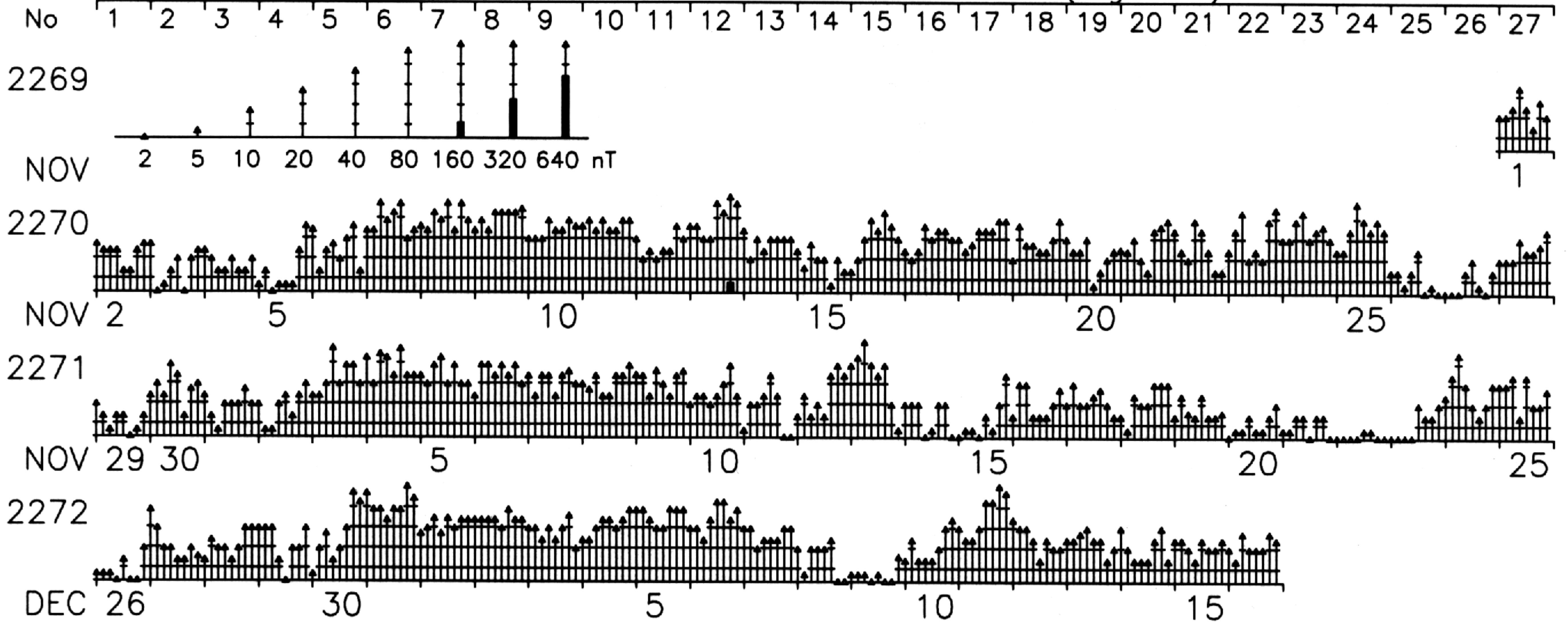
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NOVEMBER 1999		Geomagnetic Indices (provisional)												Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	19	13	18	14	16		20 2+	15 2o	18 2+	45 4-	21 3-	11 2-	20 2+	12 2-	20	19-	10	18+
2	18	12	17	13	15	C	17 2+	13 2-	15 2o	14 2o	8 1+	10 1+	14 2o	15 2o	13	15-	7	14o
3	12	8	9	11	10	CC	22 3-	1 0o	4 1-	8 1+	7 1o	2 0+	13 2-	12 2-	9	9+	5	10o
4	12	9	11	10	11	CC*	18 2+	15 2o	7 1o	5 1-	8 1+	10 1+	8 1+	14 2o	11	12o	5	10-
5	14	7	5	16	10	KK	7 1o	4 1-	1 0o	2 0+	2 0+	5 1-	17 2+	30 3o	9	8+	5	9-
6	28	11	19	20	20		24 3-	7 1o	11 2-	11 2-	10 1+	23 3-	41 4-	10 1+	17	16o	10	17+
7	50	46	48	49	48		34 3+	62 4+	56 4o	64 4+	85 5-	67 4+	24 3-	37 3+	54	31o	31	33-
8	54	49	44	60	52		41 4-	40 3+	45 4-	52 4o	82 5-	50 4-	72 5-	47 4-	54	31+	29	33o
9	57	46	42	61	52		40 3+	48 4-	43 4-	53 4o	63 4+	39 3+	45 4-	46 4-	47	30-	28	33-
10	42	24	29	37	33		21 3-	23 3-	12 2-	28 3o	26 3-	33 3o	43 4-	33 3o	27	22+	18	26o
11	48	30	40	39	39		35 3+	53 4o	47 4-	49 4-	28 3o	29 3o	51 4o	44 4-	42	28+	26	31o
12	24	15	16	23	20		19 2+	17 2+	15 2o	15 2o	17 2+	17 2+	34 3+	26 3-	20	19+	10	20-
13	69	51	31	89	60		44 4-	33 3o	29 3o	26 3-	71 5-	59 4o	126 6-	90 5o	60	32-	43	37-
14	23	22	21	24	23		24 3-	15 2o	33 3o	21 3-	24 3-	23 3-	29 3o	23 3-	24	21+	11	21-
15	7	16	14	9	12	C*	15 2o	5 1-	16 2o	10 1+	14 2o	8 1+	13 2-	9 1+	11	12+	5	10-
16	30	30	23	38	30		11 2-	12 2-	16 2o	52 4o	36 3+	58 4o	27 3o	21 3-	29	22+	14	21+
17	28	20	20	28	24		18 2+	13 2-	20 2+	24 3-	33 3o	31 3o	31 3o	27 3o	25	21o	12	21-
18	36	25	23	39	31		28 3o	17 2+	30 3o	30 3o	27 3o	29 3o	40 3+	42 4-	30	24+	17	25+
19	21	27	23	25	24		21 3-	30 3o	21 3-	20 2+	18 2+	11 2-	23 3-	39 3+	23	21-	12	20o
20	15	16	20	10	15		32 3o	21 3-	21 3-	24 3-	7 1o	8 1+	10 1+	12 2-	17	16+	9	16-
21	28	20	17	31	24		13 2-	20 2+	35 3+	14 2o	8 1+	31 3o	45 4-	35 3+	25	21-	12	20o
22	22	20	26	16	21		44 4-	19 2+	10 1+	41 4-	35 3+	12 2-	10 1+	9 1+	23	19-	11	18+
23	39	26	30	35	32		14 2o	28 3o	51 4o	20 2+	17 2+	16 2o	34 3+	52 4o	29	23o	19	25+
24	40	28	38	29	34		22 3-	28 3o	45 4-	76 5-	26 3-	28 3o	33 3o	19 2+	35	25o	21	27o
25	34	41	36	39	38		18 2+	18 2+	26 3-	80 5-	49 4-	34 3+	38 3+	23 3-	36	25o	18	25o
26	6	8	7	6	7	C*	12 2-	6 1o	4 1-	11 2-	16 2o	2 0+	1 0o	2 0+	7	8-	4	7+
27	6	5	4	7	5	CC*	1 0o	1 0o	1 0o	4 1-	10 1+	4 1-	1 0o	9 1+	4	4o	2	3o
28	20	16	15	21	18	K	17 2+	18 2+	17 2+	22 3-	18 2+	26 3-	18 2+	27 3o	20	20o	8	17+
29	7	7	8	6	7	C*	12 2-	7 1o	5 1-	12 2-	8 1+	0 0o	6 1o	9 1+	7	9-	4	9-
30	23	24	26	21	23		16 2o	13 2-	21 3-	41 4-	29 3o	11 2-	22 3-	19 2+	22	20-	10	19o

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) NOV 1999



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV 1999-JAN 2000



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - NOVEMBER 1999 -

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	-7	-8	-4	-4	-8	-10	-11	-13	-17	-28	-31	-19	-16	-12	-14	-17	-13	-12	-12	-11	-8	-6	-9	-13
2	-14	-10	-11	-12	-14	-17	-17	-20	-23	-21	-14	-8	-6	-5	-6	-9	-12	-11	-9	-6	-10	-9	-13	-20
3	-12	-10	-12	-15	-17	-19	-17	-15	-14	-8	-3	1	1	1	0	-3	-2	-2	-3	-3	-3	-3	0	1
4	2	-1	-2	-3	-5	-6	-3	0	-2	0	1	5	8	10	10	9	7	6	4	3	3	4	-1	-3
5	-2	6	10	11	11	10	8	5	3	2	1	5	6	10	8	4	3	0	-1	3	9	10	4	-1
6	-11	-4	-3	-2	-1	0	3	2	0	0	0	-2	-1	0	-1	-1	7	7	-6	-3	3	8	3	4
7	4	-11	-9	-3	-4	-31	-50	-48	-44	-34	-27	-41	-64	-63	-71	-77	-65	-59	-61	-62	-56	-49	-41	-38
8	-52	-49	-44	-40	-42	-44	-37	-43	-43	-42	-41	-46	-60	-81	-79	-62	-47	-46	-54	-45	-50	-50	-50	-48
9	-47	-45	-43	-44	-53	-53	-49	-44	-47	-54	-55	-61	-57	-43	-39	-44	-46	-40	-32	-28	-30	-32	-34	-33
10	-31	-31	-29	-30	-25	-23	-22	-20	-19	-18	-15	-16	-21	-20	-25	-23	-23	-20	-24	-22	-17	-17	-20	-22
11	-23	-20	-23	-26	-36	-49	-53	-48	-47	-51	-52	-50	-47	-41	-37	-36	-38	-42	-46	-41	-33	-39	-38	-37
12	-37	-35	-34	-34	-34	-33	-32	-32	-29	-26	-26	-30	-29	-28	-28	-26	-28	-28	-29	-26	-27	-30	-37	-43
13	-46	-45	-48	-53	-54	-62	-63	-64	-65	-56	-53	-55	-45	-57	-66	-77	-64	-69	-71	-90	-97	-90	-100	-90
14	-85	-81	-78	-70	-69	-70	-68	-63	-59	-63	-62	-61	-62	-60	-53	-54	-53	-49	-43	-42	-44	-44	-42	-36
15	-35	-33	-30	-27	-27	-28	-27	-28	-30	-31	-28	-27	-28	-27	-27	-28	-24	-21	-22	-19	-14	-13	-15	-15
16	-16	-14	-14	-14	-17	-19	-21	-20	-14	-12	-19	-34	-58	-74	-81	-86	-85	-68	-56	-47	-43	-36	-31	-30
17	-26	-31	-29	-24	-26	-27	-23	-30	-36	-31	-28	-23	-31	-25	-24	-25	-22	-24	-29	-33	-36	-35	-38	-41
18	-40	-35	-34	-32	-28	-29	-41	-46	-34	-33	-29	-24	-27	-31	-32	-30	-25	-23	-19	-18	-22	-21	-24	-26
19	-30	-37	-40	-34	-31	-34	-35	-34	-29	-27	-28	-30	-30	-33	-36	-36	-33	-32	-31	-32	-32	-27	-27	-26
20	-23	-22	-20	-17	-16	-20	-16	-14	-13	-18	-12	-11	-11	-11	-14	-13	-13	-12	-9	-5	-5	-3	-5	-1
21	-5	-8	-8	-8	-13	-17	-23	-20	-21	-23	-15	-11	-12	-9	-8	-5	-1	5	-5	-7	-12	-2	-3	-5
22	2	1	-1	8	-4	-13	-14	-17	-18	-17	-10	-28	-20	-25	-24	-21	-25	-26	-22	-13	-8	-5	-4	-2
23	-2	0	1	0	-1	-10	-20	-22	-29	-27	-26	-28	-32	-34	-36	-35	-34	-35	-38	-36	-26	-26	-38	-30
24	-25	-29	-32	-30	-29	-27	-24	-21	-32	-52	-44	-28	-25	-29	-28	-27	-17	-17	-15	-8	0	0	-2	-1
25	-5	-5	-5	-11	-17	-13	-14	-15	-8	-5	0	-21	-13	-6	-12	-7	-11	-12	-16	-18	-17	-18	-18	-18
26	-16	-16	-17	-16	-12	-12	-14	-14	-13	-14	-16	-16	-15	-14	-14	-12	-10	-10	-8	-7	-7	-6	-6	-4
27	-2	-2	-1	-1	-1	3	7	7	9	8	7	7	6	4	3	4	4	4	2	3	3	4	4	5
28	10	10	7	4	5	-1	1	-4	-13	-16	-9	-1	-1	1	1	3	4	-4	-9	-7	-9	-9	-8	-7
29	-5	-4	-8	-7	-7	-8	-9	-7	-3	1	2	2	3	4	4	3	2	2	2	3	5	5	5	6
30	2	1	6	3	-2	-5	-1	15	23	24	21	10	-3	2	5	3	3	4	4	10	16	10	10	11

DST
PROVISIONAL

1999
NOV

WDC-C2 KYOTO

