

FEDERATION OF ASTRONOMICAL AND GEOPHYSICAL DATA ANALYSIS SERVICES  
 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
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**Bureau des Publications SIIG - Bulletin Mensuel n°99 - 09 - Septembre 1999**  
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Explanations about published data are given in Special Issue 1994 of ISGI Monthly Bulletin.

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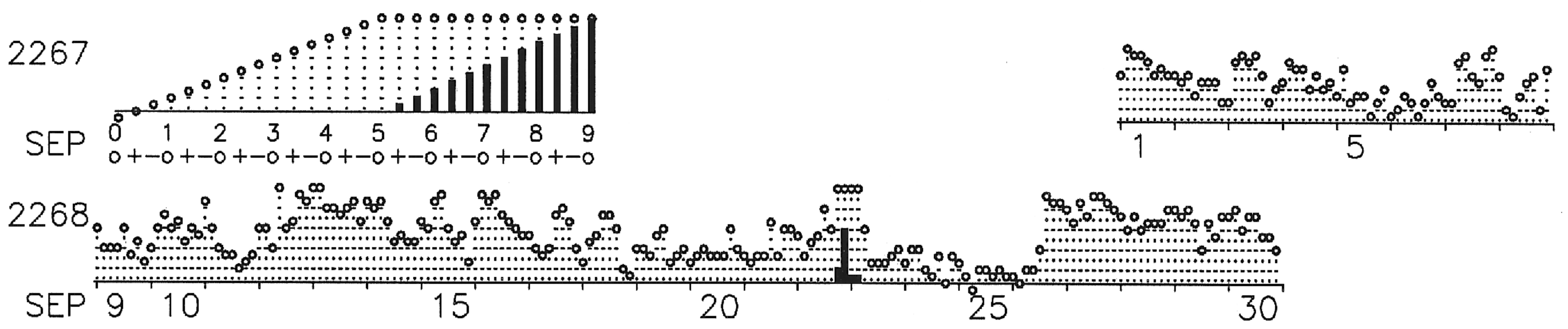
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PRELIMINARY REPORT ON RAPID VARIATIONS		SEPTEMBER 1999		
SSC - Storm Sudden Commencements		SFE - Solar Flare Effects		
09 12 57	A: NAG* SPT* B: SOD VAL* BDV* HRB GCK* LNP C: CLF EBR* QUE -: WNG sfe: GUI	06 1503-1518	GUI si:VAL	
12 03 59	A: BJI SPT* LNP B: NUR* VAL CLF HRB NAG* MMB EBR KAK KNY QUE GUI C: NGK BDV* GCK* -: WNG	06 1610-1623	NAG	
15 07 53	B: NUR* VAL* C: GCK* QUE LNP -: WNG	08 1213-1226	BDV+	
15 20 19	A: HRB GUI B: VAL* BDV CLF NAG GCK SPT C: NGK EBR LNP -: WNG	09 1258-1334	GUI (see SSC)	
22 12 22	A: NUR* VAL* CLF* NAG* MMB BJI SPT* KAK KNY QUE GUI* LNP GNA GNA B: NGK* BDV* HRB GCK EBR* -: WNG	11 2303-2320	MMB+ KAK+ KNY+	
REPORTING OBSERVATORIES (up to 2nd of November 1999):				
SOD NUR WNG NGK VAL BDV CLF HRB HRB NAG GCK MMB EBR BJI SPT KAK KNY QUE GUI LNP GNA CNB				
	FIVE INTERNATIONAL QUIETEST DAYS		FIVE INTERNATIONAL MOST DISTURBED DAYS	
September 1999	25	24	6	5K 8A
				13 22 27 16 12

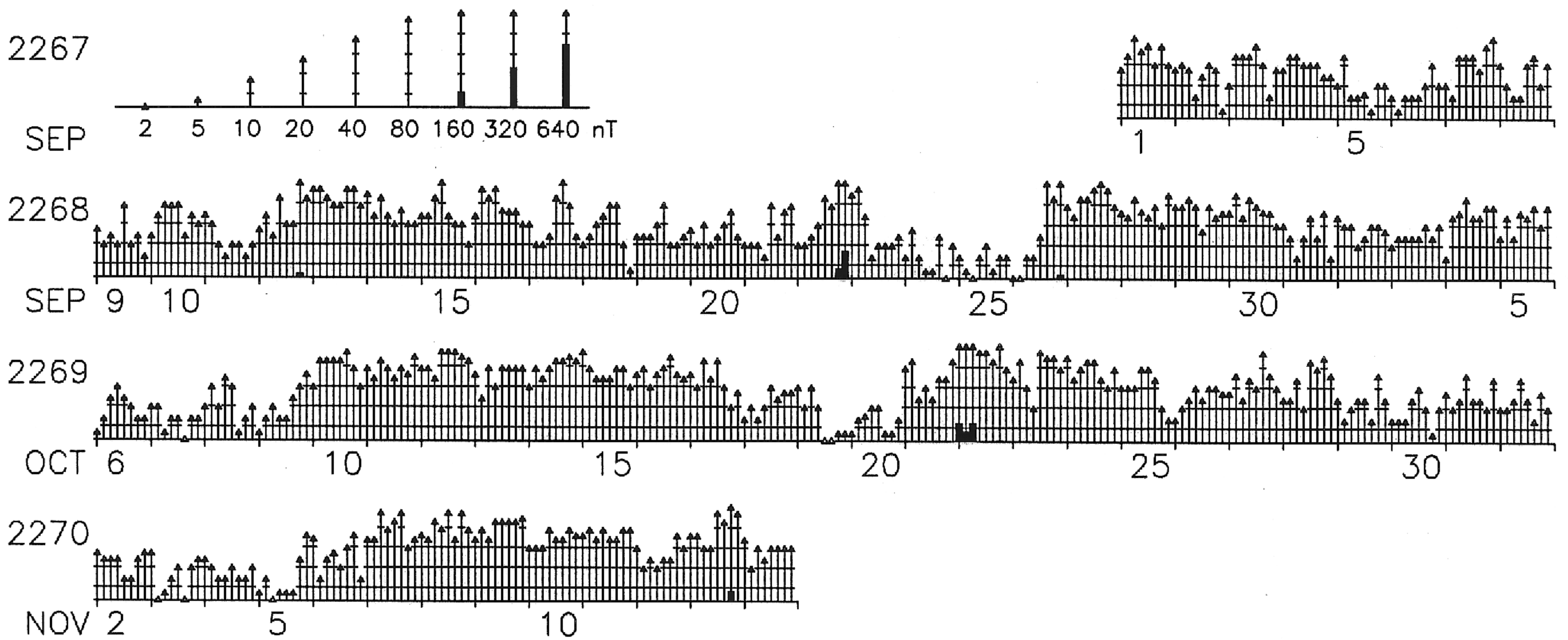
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SEPTEMBER 1999						Geomagnetic Indices (provisional)								Daily Average and Sum				
aa					quiet days	am and Km for each three hour interval								Am ΣKm		Ap ΣKp		
N	S	am	pm	D		1	2	3	4	5	6	7	8					
1	36	36	37	35	36		26 3-	51 4o	48 4-	45 4-	36 3+	23 3-	28 3o	26 3-	35	26-	20	27+
2	22	12	18	16	17		26 3-	20 2+	22 3-	13 2-	17 2+	17 2+	18 2+	9 1+	18	18-	9	17o
3	27	25	27	25	26		9 1+	39 3+	44 4-	40 3+	43 4-	21 3-	8 1+	16 2o	28	21+	15	22o
4	24	23	27	20	24		20 2+	36 3+	31 3o	27 3o	15 2o	21 3-	16 2o	19 2+	23	21-	11	20+
5	14	11	15	10	12	KK*	12 2-	31 3o	10 1+	13 2-	13 2-	5 1-	8 1+	16 2o	14	13+	6	12-
6	12	9	7	14	11	CK*	5 1-	7 1o	12 2-	8 1+	5 1-	9 1+	17 2+	11 2-	9	11-	5	11+
7	39	21	21	39	30		10 1+	10 1+	35 3+	42 4-	24 3-	17 2+	42 4-	53 4o	29	22+	18	24+
8	19	17	13	23	18	*	26 3-	7 1o	5 1-	12 2-	17 2+	22 3-	7 1o	30 3o	16	15o	8	15+
9	21	14	15	20	18		29 3o	14 2o	16 2o	16 2o	31 3o	11 2-	17 2+	9 1+	18	17+	9	16+
10	31	33	35	30	32		16 2o	27 3o	49 4-	30 3o	37 3+	18 2+	28 3o	26 3-	29	23o	16	24+
11	21	9	19	11	15		68 4+	27 3o	14 2o	12 2-	12 2-	7 1o	8 1+	12 2-	20	17-	10	16o
12	59	28	32	55	44		27 3o	29 3o	16 2o	87 5o	32 3o	39 3+	84 5-	65 4+	47	28+	31	31-
13	73	56	66	63	65		93 5o	100 5o	52 4o	53 4o	43 4-	53 4o	68 4+	37 3+	62	33+	46	39-
14	42	33	48	28	38		62 4+	52 4o	62 4+	40 3+	19 2+	26 3-	18 2+	20 2+	37	26-	21	27+
15	42	38	56	23	40		38 3+	29 3o	67 4+	83 5-	32 3o	20 2+	22 3-	9 1+	38	25-	27	29o
16	52	45	63	34	49		36 3+	79 5-	64 4+	79 5-	49 4-	35 3+	29 3o	24 3-	49	30-	31	31+
17	39	32	16	56	36		22 3-	14 2o	12 2-	16 2o	48 4-	55 4o	36 3+	16 2o	27	21+	16	24-
18	19	29	21	27	24		8 1+	20 2+	22 3-	45 4-	42 4-	31 3o	7 1o	4 1-	22	18+	13	20-
19	17	23	18	22	20		15 2o	16 2o	11 2-	23 3-	31 3o	10 1+	11 2-	14 2o	16	16+	9	18-
20	22	18	17	23	20		10 1+	12 2-	14 2o	11 2-	13 2-	12 2-	30 3o	16 2o	15	15o	8	16+
21	24	23	11	36	24		12 2-	9 1+	12 2-	11 2-	37 3+	12 2-	28 3o	33 3o	19	17+	11	19-
22	69	64	16	117	67		23 3-	13 2-	17 2+	22 3-	56 4o	31 3o	141 6-	306 7+	76	29+	50	32+
23	33	27	47	13	30		115 5+	106 5+	28 3o	9 1+	8 1+	9 1+	12 2-	16 2o	38	21+	28	24o
24	7	12	10	9	10	CC*	10 1+	14 2o	14 2o	6 1o	5 1-	12 2-	3 0+	11 2-	9	11-	5	10o
25	6	8	6	8	7	CC*	9 1+	5 1-	1 0o	7 1o	7 1o	4 1-	6 1o	5 1-	6	6+	4	7-
26	46	32	5	73	39		4 1-	2 0+	6 1o	7 1o	16 2o	75 5-	65 4+	68 4+	30	18+	20	19-
27	66	60	49	77	63		55 4o	34 3+	65 4+	42 4-	77 5-	82 5-	62 4+	56 4o	59	33o	43	38+
28	48	35	42	42	42		45 4-	32 3o	46 4-	33 3o	40 3+	35 3+	34 3+	59 4o	41	27+	27	31o
29	48	34	49	34	41		52 4o	46 4-	52 4o	36 3+	16 2o	37 3+	23 3-	45 4-	38	27-	25	30o
30	48	37	49	36	43		48 4-	54 4o	33 3o	47 4-	48 4-	23 3-	23 3-	16 2o	37	25+	26	30-

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



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



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - SEPTEMBER 1999 -

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	-19	-24	-33	-38	-34	-37	-39	-37	-39	-43	-37	-34	-35	-38	-36	-32	-28	-29	-31	-31	-27	-19	-26	-25
2	-27	-25	-24	-25	-22	-22	-26	-22	-19	-14	-9	-8	-8	-11	-12	-10	-8	-10	-10	-10	-8	-6	-9	-6
3	-3	-3	-4	-3	-5	-16	-23	-24	-23	-18	-17	-20	-19	-19	-16	-12	-15	-12	-11	-11	-10	-6	-5	-5
4	-3	-2	-6	-11	-13	-7	-12	-17	-17	-17	-10	-2	-3	-8	-8	-4	-7	-12	-8	-3	3	0	-3	-5
5	-3	-3	-3	-4	-5	-5	-3	-2	-3	-2	-3	0	0	1	0	-2	-1	-1	-1	0	0	0	1	2
6	3	2	2	3	2	-3	-5	0	6	10	14	17	15	16	17	24	24	19	18	12	8	6	6	9
7	10	12	13	14	15	18	22	27	2	-15	-20	-10	-4	-1	-4	-6	-4	-5	-7	-17	-14	-14	-14	-19
8	-20	-15	-12	-10	-12	-8	-4	-4	-3	-2	-1	-5	-7	-9	-15	-20	-17	-7	-2	-2	-1	-2	-3	-6
9	1	4	0	-3	-1	2	5	5	8	7	10	11	13	24	20	21	19	10	7	11	15	17	16	15
10	16	18	11	3	0	-13	-5	-13	-14	-4	0	1	6	2	-4	1	5	6	4	4	-1	-4	-10	-5
11	2	-5	-14	-19	-21	-12	-9	-10	-10	-10	-8	-4	0	-2	-5	-4	-2	-2	-3	-5	-1	1	1	3
12	6	2	-3	-4	18	25	29	36	36	10	-34	-42	-25	-17	-16	-11	-12	-33	-43	-47	-50	-46	-37	-39
13	-52	-61	-65	-64	-71	-65	-64	-68	-68	-69	-65	-60	-58	-53	-54	-58	-50	-45	-44	-41	-26	-35	-38	-39
14	-32	-35	-44	-52	-57	-54	-60	-67	-55	-45	-41	-42	-34	-34	-35	-36	-42	-40	-33	-26	-21	-17	-17	-20
15	-20	-24	-26	-24	-28	-32	-37	-41	-42	-53	-49	-41	-34	-38	-35	-34	-30	-23	-14	-13	-3	1	0	1
16	-1	-6	-13	-31	-47	-54	-56	-54	-67	-61	-64	-54	-58	-61	-57	-50	-45	-42	-39	-37	-30	-29	-37	-34
17	-28	-27	-31	-27	-23	-19	-17	-18	-15	-11	-10	-10	-10	-24	-39	-38	-29	-26	-24	-25	-22	-14	-14	-15
18	-13	-13	-16	-14	-15	-13	-10	-10	-12	-19	-19	-13	-16	-28	-36	-40	-33	-27	-27	-27	-25	-19	-17	-13
19	-11	-17	-23	-26	-24	-20	-22	-26	-25	-21	-21	-22	-16	-17	-18	-14	-10	-9	-11	-14	-11	-6	-4	-2
20	-4	-7	-11	-15	-19	-19	-21	-27	-25	-24	-22	-18	-11	-10	-9	-12	-12	-15	-17	-17	-11	-3	1	6
21	10	8	0	-1	0	0	-1	-6	-5	-2	0	0	2	-9	-14	-11	-8	-17	-15	-15	-12	-12	-20	-19
22	-26	-32	-30	-23	-23	-19	-15	-15	-16	-11	-10	-5	18	28	22	22	29	25	10	21	20	-44	-119	-164
23	-148	-149	-132	-134	-133	-123	-110	-100	-102	-99	-95	-88	-82	-83	-81	-76	-72	-68	-67	-62	-56	-50	-49	-46
24	-44	-42	-43	-42	-43	-43	-44	-43	-41	-41	-41	-40	-37	-35	-29	-29	-31	-32	-31	-27	-22	-17	-19	-19
25	-18	-17	-20	-20	-17	-15	-15	-17	-15	-15	-15	-16	-12	-11	-8	-6	-7	-9	-10	-10	-7	-1	-1	-2
26	-3	-6	-7	-6	-7	-8	-12	-14	-11	-7	-5	-2	3	0	-4	7	-14	-32	-22	7	-6	-24	-26	-20
27	-22	-26	-26	-23	-23	-29	-33	-41	-48	-35	-34	-37	-49	-53	-51	-66	-61	-61	-63	-57	-54	-44	-44	-45
28	-35	-34	-36	-36	-36	-38	-38	-44	-51	-46	-40	-40	-39	-47	-41	-38	-37	-38	-29	-29	-25	-21	-21	-24
29	-24	-25	-29	-38	-42	-37	-30	-34	-49	-42	-33	-28	-19	-20	-23	-28	-25	-20	-21	-22	-15	-13	-16	-23
30	-26	-31	-47	-56	-55	-56	-60	-59	-53	-53	-47	-49	-44	-42	-38	-26	-24	-23	-22	-20	-14	-10	-13	-12

DST  
PROVISIONAL  
1999  
SEP

WDC-C2 KYOTO

