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

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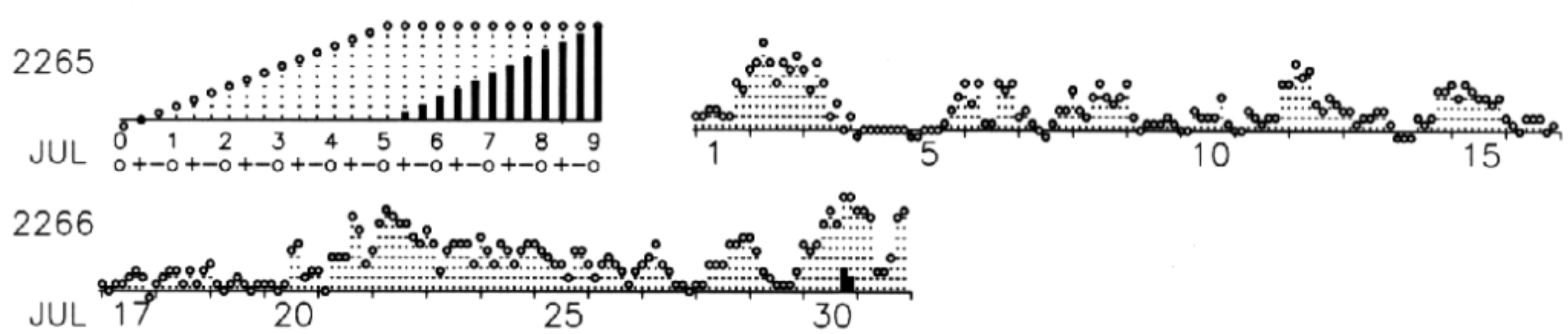
Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.

PRELIMINARY REPORT ON RAPID VARIATIONS		JULY 1999		
SSC - Storm Sudden Commencements		SFE - Solar Flare Effects		
02 00 59	A: VAL CLF* HRB* NAG BJI SPT* B: NUR NGK* EBR* QUE ETT GNA* C: BDV* GCK* HYB -: WNG*	04 0823-0835	BDV+	
		16 1546-1601	BDV+	
		24 1120-1128	BDV+	
06 15 09	A: NAG* BJI SPT* B: NGK* BDV* HRB EBR* HYB C: VAL* GCK* QUE ETT -: WNG*			
12 02 18	A: ETT B: NAG* C: NGK* BDV EBR -: WNG*			
31 18 27	A: HYB B: NGK QUE ETT -: WNG si: EBR			
REPORTING OBSERVATORIES (up to 3th of September 1999) :				
SOD NUR WNG NGK VAL BDV CLF HRB NAG GCK MMB EBR BJI SPT KAK KNY QUE HYB ETT GNA HER CNB				
	FIVE INTERNATIONAL QUIETEST DAYS		FIVE INTERNATIONAL MOST DISTURBED DAYS	
July 1999	4	17	5	19
			16	
			30	2
			31	22
				21*

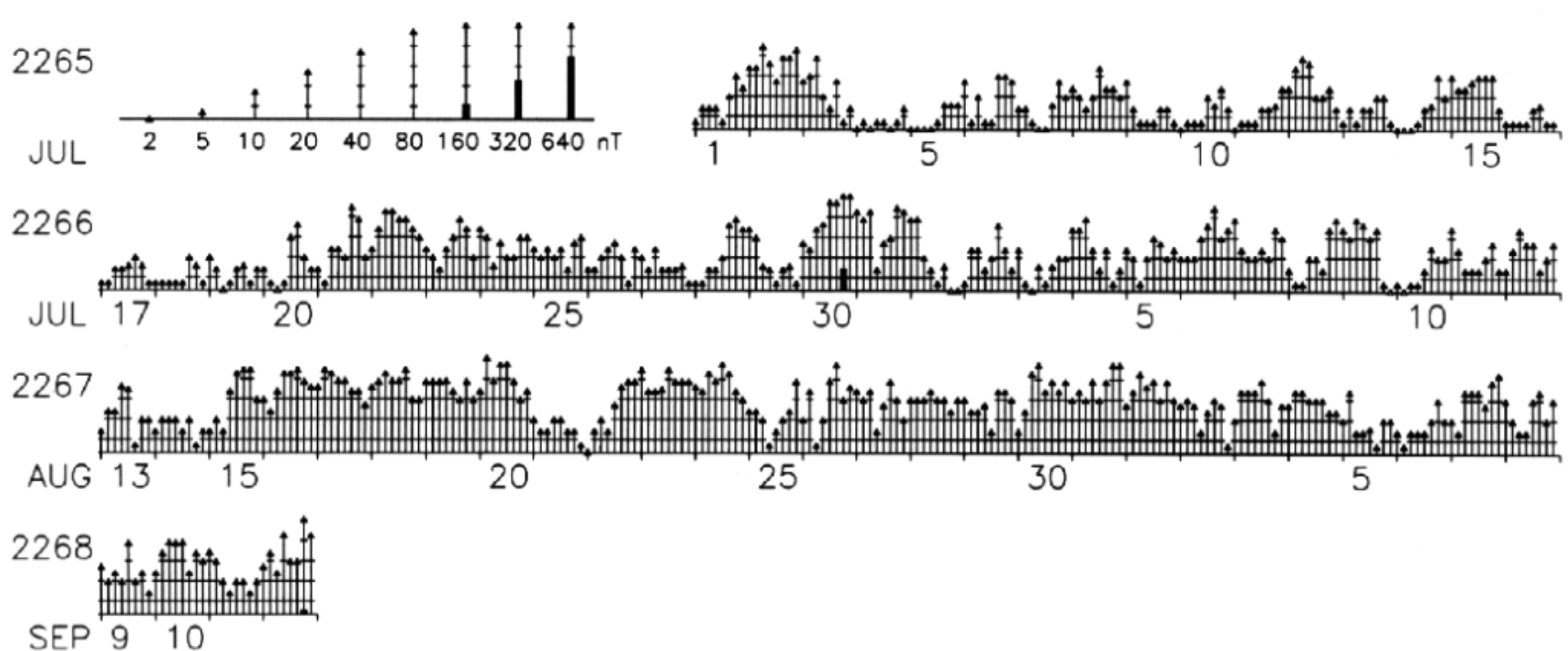
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JULY 1999		Geomagnetic Indices (provisional)												Daily Average and Sum				
	aa					quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm	D		1	2	3	4	5	6	7	8				
1	13	9	7	14	11	C	7 1o	7 1o	9 1+	10 1+	6 1o	6 1o	23 3-	19 2+	11	12-	6	12o
2	54	31	42	42	42		38 3+	42 4-	76 5-	45 4-	21 3-	45 4-	38 3+	55 4o	45	29o	26	31-
3	23	12	25	10	18		38 3+	19 2+	48 4-	24 3-	6 1o	12 2-	2 0+	7 1o	20	16o	9	15o
4	5	4	4	5	4	CC*	0 0o	2 0+	2 0+	2 0+	3 0+	3 0+	3 0+	3 0+	2	2+	2	3-
5	8	2	2	8	5	CC*	0 0o	1 0o	2 0+	2 0+	3 0+	5 1-	8 1+	15 2o	5	5o	2	5o
6	19	10	11	18	14	K	21 3-	13 2-	21 3-	4 1-	5 1-	22 3-	19 2+	21 3-	16	16o	8	15o
7	11	5	6	11	8	CK	6 1o	9 1+	4 1-	2 0+	1 0o	5 1-	9 1+	9 1+	6	7-	4	9-
8	14	17	12	19	16	K	17 2+	9 1+	7 1o	16 2o	23 3-	14 2o	13 2-	15 2o	14	15o	6	13+
9	10	6	10	7	8	CC	23 3-	7 1o	3 0+	4 1-	4 1-	5 1-	6 1o	4 1-	7	8-	4	7o
10	9	6	4	11	8	CC	2 0+	3 0+	9 1+	6 1o	7 1o	6 1o	14 2o	4 1-	6	8-	4	8-
11	8	6	4	10	7	C	3 0+	3 0+	8 1+	6 1o	5 1-	6 1o	6 1o	23 3-	8	8+	4	8-
12	21	24	33	12	22		23 3-	47 4-	33 3o	35 3+	11 2-	8 1+	15 2o	11 2-	23	19+	10	19-
13	9	7	7	9	8	CC	9 1+	10 1+	4 1-	7 1o	6 1o	9 1+	9 1+	4 1-	7	9-	4	8+
14	10	6	3	13	8	CC	1 0o	1 0o	1 0o	7 1o	5 1-	6 1o	20 2+	18 2+	7	7+	5	8+
15	22	17	19	20	20		25 3-	16 2o	25 3-	19 2+	14 2o	16 2o	12 2-	14 2o	18	17+	8	17+
16	9	3	5	7	6	CK*	7 1o	4 1-	3 0+	7 1o	6 1o	6 1o	3 0+	5 1-	5	6o	4	8-
17	9	7	7	9	8	CC*	4 1-	2 0+	4 1-	5 1-	6 1o	9 1+	6 1o	1 0o	5	6-	3	6+
18	10	3	5	8	6	CC	4 1-	6 1o	9 1+	8 1+	5 1-	8 1+	5 1-	8 1+	7	8+	4	8o
19	9	5	7	8	7	CC*	11 2-	4 1-	3 0+	5 1-	7 1o	5 1-	2 0+	4 1-	5	6o	4	7o
20	17	8	5	20	13	KK	4 1-	5 1-	2 0+	4 1-	17 2+	21 3-	6 1o	8 1+	8	10-	5	9+
21	30	15	11	34	23		8 1+	3 0+	15 2o	15 2o	14 2o	56 4o	39 3+	11 2-	20	17-	14	19-
22	43	35	42	37	39		20 2+	41 4-	70 4+	51 4o	41 4-	48 4-	31 3o	26 3-	41	27+	25	30o
23	23	18	13	28	21		37 3+	24 3-	10 1+	19 2+	25 3-	26 3-	21 3-	11 2-	22	19+	11	19+
24	26	13	21	18	20		33 3o	20 2+	11 2-	21 3-	18 2+	13 2-	20 2+	21 3-	20	19-	11	20-
25	19	12	14	17	16		24 3-	17 2+	14 2o	13 2-	13 2-	6 1o	19 2+	20 2+	16	16o	8	16o
26	15	9	11	13	12	CC	13 2-	6 1o	12 2-	15 2o	13 2-	10 1+	4 1-	8 1+	10	11+	6	13-
27	10	8	11	8	9	CC	11 2-	15 2o	22 3-	12 2-	8 1+	5 1-	5 1-	2 0+	10	11o	5	10+
28	24	14	7	32	19		4 1-	4 1-	13 2-	13 2-	11 2-	21 3-	26 3-	30 3o	15	15-	9	15+
29	12	13	18	7	13	K	29 3o	17 2+	8 1+	7 1o	5 1-	5 1-	5 1-	10 1+	11	11o	6	12-
30	79	61	27	114	70		21 3-	17 2+	26 3-	44 4-	67 4+	46 4-	163 6o	128 6-	64	31o	53	35o
31	51	34	43	43	43		65 4+	66 4+	58 4o	9 1+	10 1+	16 2o	60 4o	66 4+	44	26-	28	29o

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



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



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - JULY 1999 -

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
DAY																									
1		-12	-13	-12	-10	-13	-15	-14	-15	-16	-16	-12	-9	-8	-4	-3	-2	-2	-4	-5	-6	-9	-12	-16	-17
2		-15	-2	-6	-3	1	5	-4	-12	-13	-13	-16	-9	-4	-6	-12	-13	-16	-21	-25	-22	-18	-22	-28	-27
3		-31	-26	-22	-20	-15	-14	-17	-24	-34	-34	-31	-32	-33	-31	-30	-26	-26	-25	-24	-23	-23	-21	-18	-15
4		-11	-9	-9	-8	-8	-7	-8	-9	-10	-12	-11	-12	-13	-11	-10	-10	-10	-9	-9	-11	-13	-11	-9	-8
5		-6	-7	-8	-7	-2	2	4	5	5	1	0	2	2	2	1	1	2	2	3	5	4	-1	-3	-4
6		-6	-8	-6	-9	-13	-17	-23	-29	-26	-25	-21	-18	-13	-9	-6	1	1	-2	0	-2	-7	-6	1	3
7		3	2	0	5	8	8	5	2	-2	-4	-5	-8	-8	-7	-6	-5	-4	-4	-1	-4	1	0	2	2
8		1	2	4	1	8	10	11	12	9	3	-4	-7	-6	-9	-14	-18	-24	-28	-31	-34	-36	-35	-31	-26
9		-18	-19	-21	-19	-20	-22	-20	-18	-17	-19	-18	-18	-18	-16	-14	-13	-14	-17	-15	-13	-12	-10	-6	-5
10		-6	-9	-10	-8	-9	-8	-6	-8	-10	-10	-7	-3	-5	-5	-4	-2	-4	-8	-13	-12	-12	-12	-9	-6
11		-6	-5	-3	1	1	-3	-7	-10	-12	-13	-11	-10	-10	-10	-7	-6	-8	-8	-7	-6	-6	-8	-7	-1
12		2	3	12	7	-5	-13	-21	-30	-38	-36	-31	-27	-22	-23	-23	-26	-29	-31	-28	-24	-27	-30	-28	-22
13		-18	-15	-11	-10	-13	-14	-14	-12	-12	-10	-7	-6	-9	-13	-10	-8	-9	-10	-10	-7	-7	-6	-7	-7
14		-7	-7	-6	-4	-1	3	3	2	0	-3	-3	1	9	11	11	12	12	11	6	3	7	3	11	13
15		5	1	0	1	-6	-10	-16	-15	-12	-12	-9	-10	-14	-14	-12	-12	-13	-10	-9	-7	-8	-10	-13	-11
16		-11	-9	-8	-7	-9	-10	-9	-8	-8	-6	-4	0	4	5	4	5	7	6	4	3	3	3	1	2
17		1	2	2	1	0	1	3	4	2	4	7	7	6	6	6	3	4	7	9	9	9	8	8	7
18		9	12	15	15	19	15	13	10	10	12	14	15	11	8	4	1	-1	-4	-2	1	5	7	9	7
19		6	8	9	13	15	13	13	14	17	20	16	13	11	11	14	17	17	13	11	11	14	15	16	19
20		20	19	20	22	21	21	22	23	21	18	19	18	18	19	14	7	8	13	12	10	9	10	13	12
21		6	3	-4	-6	-4	0	2	-3	0	3	1	-3	-4	0	3	9	7	-10	-36	-48	-35	-27	-23	-21
22		-18	-14	-8	-3	-5	-15	-30	-54	-49	-31	-34	-43	-45	-44	-36	-41	-51	-55	-49	-45	-41	-40	-38	-33
23		-30	-30	-34	-28	-27	-23	-19	-19	-22	-29	-30	-31	-28	-28	-28	-27	-24	-23	-26	-31	-27	-22	-12	-9
24		-10	-20	-25	-24	-24	-23	-22	-21	-20	-19	-18	-18	-17	-12	-11	-13	-15	-18	-18	-18	-15	-12	-15	-15
25		-12	-13	-16	-17	-13	-9	-10	-13	-14	-15	-17	-14	-15	-20	-21	-18	-15	-17	-19	-19	-14	-16	-14	-14
26		-14	-11	-9	-5	-6	-8	-12	-13	-15	-17	-15	-14	-16	-17	-20	-21	-22	-22	-20	-16	-13	-9	-8	-8
27		-4	-2	0	-2	-1	0	0	-8	-7	-7	-7	-5	0	5	5	6	3	-3	-7	-9	-9	-10	-8	-5
28		-3	-4	-4	-4	-3	-2	-3	-6	-9	-10	-11	-9	-10	-9	-8	-11	-11	-17	-24	-23	-24	-29	-27	-32
29		-33	-38	-40	-38	-32	-27	-29	-27	-17	-19	-14	-13	-12	-10	-9	-7	-6	-5	-9	-11	-10	-9	-8	-7
30		-13	-25	-28	-21	-17	-18	-24	-27	-27	-23	-17	-14	-37	-34	-21	-21	-27	-19	-2	7	26	-13	-25	-14
31		-43	-56	-60	-60	-52	-48	-41	-35	-38	-44	-43	-40	-38	-36	-33	-33	-32	-34	-23	-22	-27	-22	-36	-37

DST
PROVISIONAL
1999
JUL
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