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CONTENTS

Rapid Variations	- provisional determination of ssc and sfe	January 1999
Classification of days	- five international quietest days and most disturbed days	January 1999
aa	- hemispheric N, S, daily values and planetary half day and daily values	January 1999
	- musical diagram of aa (latest values)	Dec.1998 up to March. 14 th 1999
Quiet periods	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	January 1999
am, Km	- three hour indices values musical diagram of Km	January 1999
Am, ΣKm	- daily values	January 1999
Ap, ΣKp	- daily values	January 1999
Dst	- monthly tables of hourly indices	January 1999

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

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PRELIMINARY REPORT ON RAPID VARIATIONS

JANUARY 1998

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

06 14 20 A : COI*
 B : DOU
 C : WNG NGK GCK PAF
 Si : SPT QUE

13 10 54 A : NUR* WNG CLF* HRB NAG*
 B : SOD* DOU* BDV* HTY QUE GNA* HER
 C : NGK* GCK* EBR* COI SPT* HYB CNB AMS*
 CZT PAF*

16 1205-1213 BDV+

REPORTING OBSERVATORIES (up to 4th of March 1999) :

SOD NUR WNG NGK DOU BDV CLF HRB NAG GCK GCK HRB COI SPT HTY QUE HYB ETT GNA HER CNB AMS CZT PAF DRV

FIVE INTERNATIONAL QUIETEST DAYS

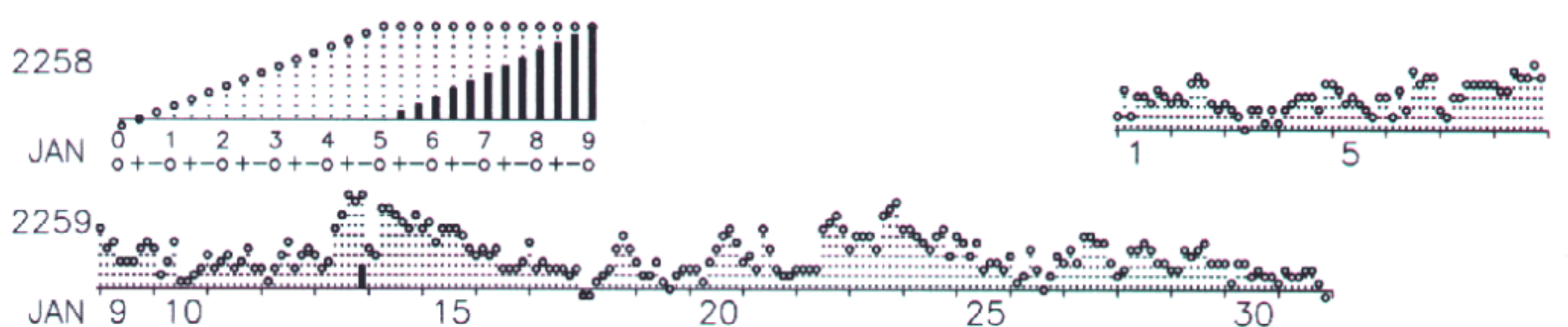
FIVE INTERNATIONAL MOST DISTURBED DAYS

January 1999	31 19 30 3 26	13 14 23 15 8*
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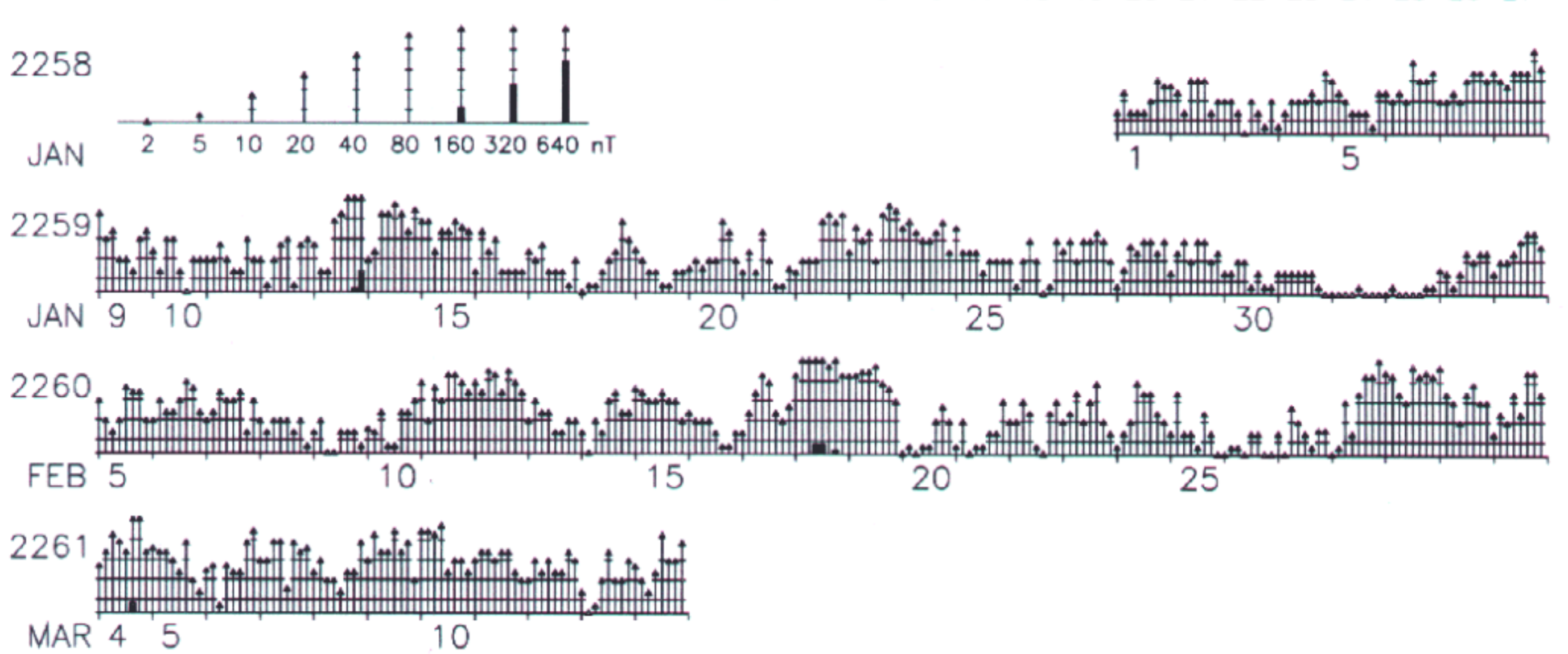
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JANUARY 1999						Geomagnetic Indices (provisional)								Daily Average and Sum				
aa					quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp		
N	S	am	pm	D		1	2	3	4	5	6	7	8					
1	16	10	10	16	13	CK	6 1o	18 2+	7 1o	15 2o	15 2o	11 2-	19 2+	14 2o	13	14+	6	13-
2	15	19	17	17	17		12 2-	15 2o	11 2-	23 3-	27 3o	22 3-	11 2-	9 1+	16	17-	7	14+
3	8	9	9	9	9	CC*	12 2-	10 1+	6 1o	2 0+	10 1+	9 1+	5 1-	8 1+	8	9o	4	8+
4	13	14	9	18	14	K	5 1-	10 1+	13 2-	15 2o	14 2o	14 2o	10 1+	25 3-	13	14-	7	14o
5	12	12	15	9	12	C	24 3-	19 2+	13 2-	14 2o	12 2-	9 1+	7 1o	16 2o	14	15-	8	15+
6	21	25	14	32	23		15 2o	6 1o	17 2+	10 1+	40 3+	23 3-	27 3o	29 3o	21	19-	10	18+
7	19	22	13	28	21		10 1+	6 1o	14 2o	14 2o	24 3-	26 3-	21 3-	21 3-	17	17o	9	17-
8	39	30	27	42	35		24 3-	20 2+	20 2+	38 3+	33 3o	28 3o	46 4-	31 3o	30	23+	17	25+
9	24	27	32	19	25		40 3+	20 2+	22 3-	12 2-	13 2-	11 2-	18 2+	23 3-	20	18+	11	19-
10	12	14	18	9	13	K	18 2+	7 1o	13 2-	25 3-	5 1-	4 1-	6 1o	10 1+	11	11+	6	12-
11	10	17	14	13	14	CC	14 2o	9 1+	12 2-	15 2o	8 1+	11 2-	18 2+	9 1+	12	14-	6	12o
12	15	15	12	18	15		10 1+	4 1-	8 1+	14 2o	22 3-	9 1+	15 2o	19 2+	13	14-	5	11-
13	86	51	21	117	69		16 2o	8 1+	11 2-	36 3+	54 4o	88 5o	84 5-	153 6o	56	28o	40	31o
14	50	46	37	60	48		20 2+	16 2o	61 4+	66 4+	57 4o	45 4-	34 3+	51 4o	44	28o	29	31+
15	43	28	35	37	36		34 3+	48 4-	25 3-	34 3+	36 3+	37 3+	29 3o	18 2+	33	25o	20	27-
16	15	13	20	8	14		15 2o	19 2+	15 2o	18 2+	9 1+	9 1+	9 1+	12 2-	13	14+	8	15+
17	10	12	14	8	11	CC	21 3-	10 1+	13 2-	8 1+	9 1+	8 1+	7 1o	8 1+	11	12o	6	12-
18	16	13	5	24	15	K	1 0o	1 0o	4 1-	6 1o	10 1+	18 2+	31 3o	19 2+	11	11-	5	9-
19	10	8	11	7	9	CK*	11 2-	7 1o	7 1o	12 2-	4 1-	2 0+	7 1o	8 1+	7	9-	4	8-
20	15	21	11	26	18		9 1+	8 1+	5 1-	12 2-	19 2+	31 3o	36 3+	21 3-	18	16+	8	13+
21	11	13	16	8	12	K	11 2-	16 2o	8 1+	37 3+	17 2+	8 1+	6 1o	6 1o	14	14o	6	11o
22	30	34	11	52	32		10 1+	9 1+	8 1+	10 1+	36 3+	44 4-	53 4o	34 3+	26	20-	14	20-
23	44	38	28	55	41		18 2+	28 3o	29 3o	30 3o	17 2+	57 4o	61 4+	72 5-	39	27-	21	27o
24	34	30	35	29	32		38 3+	36 3+	28 3o	22 3-	17 2+	32 3o	36 3+	16 2o	28	23o	17	25-
25	17	15	21	11	16		29 3o	21 3-	14 2o	23 3-	9 1+	11 2-	11 2-	10 1+	16	16+	9	17-
26	11	13	13	11	12	K*	16 2o	5 1-	7 1o	20 2+	10 1+	3 0+	6 1o	16 2o	10	11-	5	10-
27	22	21	19	23	21		13 2-	18 2+	11 2-	28 3o	28 3o	26 3-	23 3-	13 2-	20	19-	9	18-
28	15	19	13	22	17		6 1o	9 1+	20 2+	18 2+	26 3-	20 2+	13 2-	13 2-	16	15+	7	14+
29	14	20	15	19	17		9 1+	10 1+	17 2+	14 2o	18 2+	22 3-	13 2-	11 2-	14	15+	7	16-
30	7	9	10	6	8	CC*	11 2-	5 1-	12 2-	13 2-	6 1o	8 1+	6 1o	6 1o	8	10o	4	8o
31	6	7	8	6	7	CC*	5 1-	10 1+	7 1o	6 1o	9 1+	8 1+	5 1-	1 0o	6	7+	3	6+

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



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



Dst monthly table of hourly indices - January 1999

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

JANUARY 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	-2	-1	-2	-6	-7	-2	0	3	7	4	-1	-8	-8	-2	0	0	-1	-2	-4	-6	-2	0	1	-2	
2	0	1	0	-1	-4	-6	-3	-4	-5	-9	-8	-7	-8	-11	-15	-8	-8	-11	-13	-12	-8	-7	-5	-6	
3	-4	-7	-8	-9	-10	-6	-4	-3	-2	-2	0	2	-1	-4	-4	-3	1	1	2	1	2	2	-1	-2	
4	-1	1	0	-3	-5	-10	-15	-21	-26	-27	-23	-21	-18	-17	-15	-19	-21	-23	-22	-21	-20	-19	-19	-21	
5	-23	-25	-27	-30	-33	-35	-34	-32	-27	-27	-25	-23	-24	-18	-11	-11	-11	-12	-8	-4	-6	-7	-6	-2	
6	-1	4	7	7	8	6	4	2	2	5	8	11	15	22	11	1	7	9	0	-11	-15	-13	-17	-15	
7	-14	-11	-6	-5	-6	-5	-4	-2	-6	-6	-2	-2	-2	-5	-11	-13	-9	-13	-12	-10	-4	-5	-6	-6	
8	-8	-7	-6	-5	-9	-9	-8	-6	-6	-8	0	3	-3	-17	-16	-16	-14	-16	-15	-17	-20	-22	-21	-19	
9	-17	-24	-24	-18	-18	-24	-26	-27	-24	-24	-20	-15	-14	-15	-16	-16	-14	-18	-17	-14	-12	-10	-13	-15	
10	-13	-12	-12	-8	-11	-12	-10	-10	-15	-13	-7	-3	-6	-11	-13	-14	-13	-13	-12	-13	-14	-13	-14	-15	
11	-13	-10	-9	-8	-10	-12	-13	-16	-9	-6	-9	-10	-8	-6	-4	-4	-6	-8	-12	-14	-15	-14	-13	-12	
12	-9	-9	-7	-1	1	0	-3	-3	1	0	2	-1	2	2	-1	-2	3	3	1	0	-3	-6	-3	0	
13	2	4	2	-1	-6	-11	-15	-16	-17	-15	-8	-8	-35	-48	-34	-25	-23	-58	-96	-110	-113	-109	-95	-107	
14	-98	-92	-88	-79	-72	-66	-63	-63	-71	-90	-83	-66	-59	-59	-67	-68	-56	-50	-51	-49	-48	-46	-39	-41	
15	-38	-42	-45	-44	-55	-52	-48	-47	-46	-54	-47	-41	-39	-39	-36	-36	-33	-37	-40	-36	-28	-26	-23	-22	
16	-24	-23	-21	-23	-24	-26	-24	-21	-23	-25	-25	-26	-26	-26	-25	-25	-24	-24	-21	-19	-20	-21	-17	-20	
17	-20	-15	-13	-18	-17	-16	-17	-16	-16	-12	-10	-10	-12	-12	-9	-9	-9	-9	-10	-9	-9	-7	-7	-7	
18	-7	-6	-4	-3	-4	-4	-3	-2	-2	-2	0	-2	-2	-2	-4	-5	-4	-7	-15	-20	-24	-28	-26	-25	
19	-21	-17	-16	-15	-14	-17	-16	-14	-15	-13	-13	-14	-14	-14	-13	-13	-13	-13	-13	-14	-16	-14	-11	-12	
20	-9	-7	-7	-5	-4	-4	-6	-6	-5	-4	-3	-6	-11	-14	-14	-16	-21	-25	-17	-14	-10	-14	-11	-9	
21	-7	-5	-8	-10	-16	-15	-12	-12	-9	-9	-15	-20	-15	-12	-17	-19	-18	-16	-15	-14	-13	-12	-13	-15	
22	-13	-15	-14	-7	-4	-6	-4	-4	-3	-1	4	4	2	1	-13	-33	-35	-45	-46	-49	-40	-31	-21	-21	
23	-20	-20	-19	-16	-15	-29	-36	-31	-28	-18	-13	-7	-6	-4	-4	-6	-12	-32	-35	-31	-48	-45	-41	-40	
24	-38	-38	-35	-36	-42	-37	-38	-38	-33	-33	-35	-32	-30	-26	-27	-27	-30	-41	-45	-41	-38	-33	-32	-32	
25	-32	-33	-35	-38	-39	-35	-34	-31	-28	-28	-25	-22	-24	-23	-24	-25	-24	-23	-24	-21	-19	-14	-15	-14	
26	-19	-19	-14	-12	-11	-8	-6	-5	-6	-8	-9	-10	-9	-9	-11	-14	-14	-12	-10	-8	-6	-8	-10	-11	
27	-17	-22	-22	-23	-21	-19	-21	-22	-18	-20	-23	-29	-36	-40	-45	-38	-34	-33	-27	-19	-16	-14	-12	-13	
28	-7	-4	-6	-7	-9	-11	-16	-16	-16	-14	-10	-8	-7	-9	-11	-12	-11	-7	-4	-8	-12	-13	-14	-13	
29	-8	-6	-4	-4	-6	-8	-6	-7	-10	-8	-1	4	2	1	-3	-8	-9	-6	-6	-7	-5	-4	-4	-4	
30	-3	0	0	-2	-1	-3	-3	-7	-10	-10	-10	-9	-4	0	4	5	4	3	3	3	0	0	0	0	
31	0	0	-1	-1	-2	-5	-8	-6	-3	-2	-1	-1	-3	-5	-5	-7	-6	-3	-3	-2	-2	-3	-1	0	

