



**Bureau des Publications SIIG - Bulletin Mensuel n°96-12 - Decembre 1996**  
**ISGI Publications Office Monthly Bulletin n°96-12-December 1996**

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

Ce Bulletin est adressé gracieusement aux Scientifiques intéressés, grâce à une dotation du FAGS et au soutien du laboratoire d'accueil, le CETP, et des organismes français de Recherche Scientifique (CNRS, INSU, BCMT).

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PRELIMINARY REPORT ON RAPID VARIATIONS		DECEMBER 1996
<b>SSC - Storm Sudden Commencements</b>		<b>SFE - Solar Flare Effects</b>
02 10 01	A : HRB* BJI B : NUR EBR TEN CNB C : BDV* CLF GCK* SPT QUE LNP	23 1645-1706 BDV CLF (ssc: BDV CLF)
14 08 25	B : WNG DOU PAF C : CLF AMS CZT	
REPORTING OBSERVATORIES (up to the 7th of February 1997) :		
SOD DOB NUR WNG NGK DOU BDV CLF HRB NAG GCK MMB EBR COI BJI SPT FRD KAK HTY KNY QUE TEN LNP HER CNB AMS CZT PAF DRV		

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
December 1996	19	6	20	5	1	10	11*	15*	16*	4*

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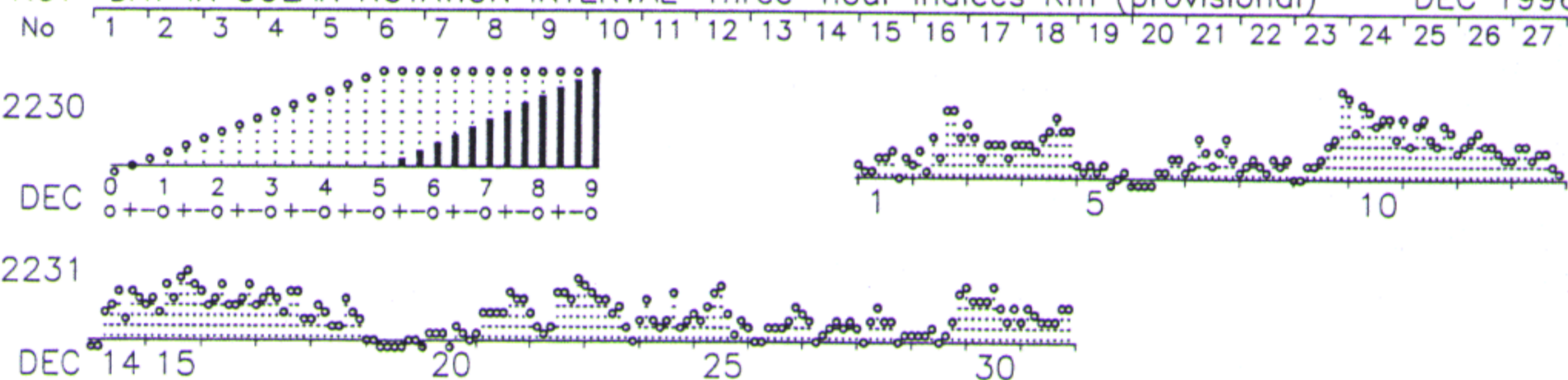
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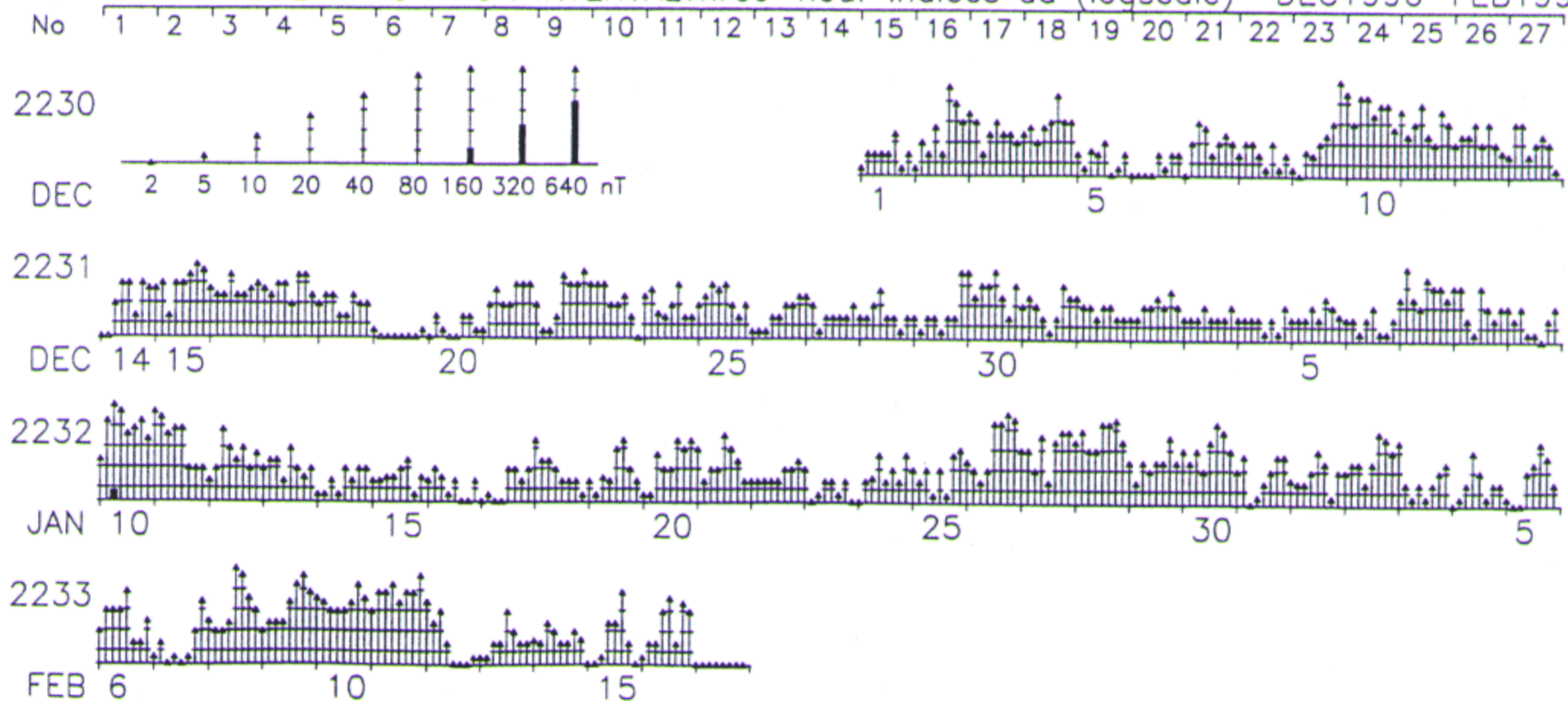
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DECEMBER 1996 Geomagnetic Indices (provisional)															Daily Average and Sum			
	aa				D	quiet days	am and Km for each three hour interval								Am $\Sigma$ Km		Ap $\Sigma$ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	8	8	7	9	8	CC*	7 10	5 1-	5 1-	8 1+	8 1+	13 2-	2 0+	8 1+	7	8+	3	5+
2	30	21	11	39	25		7 10	12 2-	5 1-	18 2+	8 1+	46 4-	43 4-	19 2+	20	17-	10	160
3	17	20	20	17	19		28 30	17 2+	9 1+	14 20	15 20	14 20	9 1+	15 20	15	160	8	16-
4	22	28	17	33	25		16 20	16 20	12 2-	17 2+	23 3-	40 3+	22 3-	26 3-	22	19+	11	19-
5	5	9	8	7	7	CK*	6 10	4 1-	7 10	4 1-	7 10	0 00	3 0+	5 1-	5	5+	2	3+
6	4	5	2	7	5	CC*	0 00	0 00	0 00	0 00	5 1-	4 1-	8 1+	8 1+	3	40	1	20
7	10	17	15	12	13	CC	4 1-	7 10	19 2+	13 2-	6 10	11 2-	17 2+	10 1+	11	120	4	90
8	8	10	10	8	9	CC	4 1-	6 10	8 1+	7 10	5 1-	10 1+	6 10	8 1+	7	8+	3	60
9	19	25	6	39	22		3 0+	2 0+	7 10	6 10	9 1+	14 20	19 2+	76 5-	17	130	9	11+
10	52	36	52	36	44		61 4+	22 3-	58 40	47 4-	33 30	40 3+	36 3+	20 2+	40	27-	25	300
11	30	23	31	22	27		36 3+	14 20	31 30	37 3+	18 2+	16 20	27 30	22 3-	25	22-	14	23-
12	18	13	17	14	16		11 2-	16 20	20 2+	21 3-	14 20	16 20	13 2-	9 1+	15	16-	8	17-
13	12	15	16	11	14	K	10 1+	14 20	16 20	8 1+	12 2-	11 2-	7 10	4 1-	10	12-	6	12-
14	15	14	10	19	15		0 00	1 00	11 2-	16 20	25 3-	9 1+	23 3-	18 2+	13	13-	6	13-
15	31	22	19	35	27		16 20	18 2+	12 2-	28 30	20 2+	34 3+	41 4-	27 30	25	21+	13	220
16	24	16	21	19	20		26 3-	16 20	17 2+	29 30	14 20	14 20	19 2+	27 30	20	19+	12	21-
17	21	23	21	23	22		15 20	20 2+	22 3-	20 2+	13 2-	22 3-	21 3-	9 1+	18	18-	10	19-
18	13	12	13	12	13	CK	10 1+	14 20	12 2-	6 10	6 10	17 2+	11 2-	8 1+	11	12+	6	120
19	4	2	3	3	3	CC*	2 0+	2 0+	0 00	0 00	0 00	1 00	2 0+	3 0+	1	1+	1	1+
20	4	6	4	6	5	CC*	0 00	5 1-	5 1-	4 1-	1 00	7 10	4 1-	3 0+	4	40	2	3-
21	17	16	12	21	17	K	4 1-	11 2-	12 2-	13 2-	13 2-	23 3-	18 2+	19 2+	14	15-	6	120
22	23	14	8	29	18		12 2-	6 10	4 1-	7 10	25 3-	21 3-	20 2+	35 3+	16	15+	9	150
23	15	16	21	10	15		30 30	24 3-	18 2+	20 2+	11 2-	16 20	7 10	3 0+	16	15+	9	14+
24	9	17	13	13	13	CK	10 1+	19 2+	9 1+	6 10	10 1+	23 3-	7 10	10 1+	12	12+	4	8-
25	13	19	18	14	16	K	12 2-	10 1+	16 20	25 3-	30 30	11 2-	5 1-	9 1+	15	14+	6	120
26	7	10	6	12	9	CC	6 10	3 0+	3 0+	6 10	6 10	7 10	10 1+	14 20	7	80	3	60
27	8	11	10	9	10	CC	11 2-	9 1+	2 0+	5 1-	6 10	9 1+	6 10	9 1+	7	9-	3	6+
28	8	11	12	7	10	CC	6 10	3 0+	9 1+	16 20	8 1+	8 1+	3 0+	4 1-	7	8+	3	6-
29	13	8	7	15	11	K	4 1-	4 1-	5 1-	6 10	3 0+	5 1-	9 1+	22 3-	7	80	4	7+
30	22	25	25	22	23		28 30	17 2+	17 2+	20 2+	30 30	14 20	10 1+	16 20	19	18+	10	18-
31	14	11	12	13	13	C	8 1+	15 20	11 2-	8 1+	8 1+	8 1+	16 20	15 20	11	130	5	11+

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) DEC 1996



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) DEC 1996-FEB 1997





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**RAPID VARIATIONS CORRECTED**

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HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

DECEMBER 1996

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	0	6	9	11	6	4	4	9	8	2	-3	-10	-9	-6	-3	-3	-1	2	3	4	5	5	4	1		
2	-3	-2	-1	1	-1	0	-1	0	1	1	12	12	8	9	17	26	26	12	-8	-9	-11	-10	-10	-7		
3	-8	-16	-13	-12	-16	-14	-18	-18	-15	-16	-17	-11	-14	-16	-16	-17	-18	-16	-17	-16	-16	-13	-10	-4		
4	-3	-2	-5	-6	-7	-11	-7	-4	0	3	3	0	-9	-13	-12	-17	-18	-15	-17	-17	-13	-16	-12	-7		
5	-4	-3	-6	-7	-8	-6	-7	-10	-9	-10	-9	-8	-8	-9	-10	-9	-8	-7	-7	-10	-11	-11	-10	-9		
6	-11	-12	-10	-8	-8	-9	-8	-8	-8	-8	-9	-10	-11	-9	-7	-6	-7	-2	-2	-4	-7	-2	1	4		
7	5	5	4	5	6	5	2	0	-1	-1	0	-3	-5	-4	-1	-1	1	1	-2	0	-5	-7	-9	-10		
8	-8	-7	-9	-11	-10	-13	-14	-14	-12	-14	-13	-10	-7	-4	-3	-5	-2	3	6	1	0	3	6	8		
9	8	7	8	7	7	6	5	6	7	7	9	8	9	11	13	14	13	18	16	22	18	18	4	-15		
10	-31	-27	-30	-32	-27	-26	-24	-26	-30	-20	-17	-18	-20	-23	-18	-17	-17	-18	-22	-25	-30	-30	-25	-18		
11	-18	-23	-18	-16	-15	-19	-20	-23	-25	-24	-24	-21	-17	-13	-12	-14	-14	-13	-14	-14	-20	-21	-16	-15		
12	-12	-9	-7	-9	-7	-15	-19	-23	-26	-30	-28	-21	-19	-16	-16	-18	-18	-17	-16	-17	-18	-19	-19	-18		
13	-15	-12	-10	-11	-10	-15	-18	-20	-19	-20	-21	-24	-23	-23	-21	-22	-21	-19	-19	-20	-21	-21	-19	-18		
14	-15	-11	-8	-9	-10	-11	-12	-12	-8	-12	-19	-21	-23	-20	-15	-9	-7	-8	-13	-23	-25	-22	-20	-21		
15	-18	-10	-4	-8	-9	-8	-10	-11	-9	-11	-15	-11	-16	-17	-15	-17	-12	-18	-21	-21	-21	-22	-20	-18		
16	-16	-16	-8	-5	-8	-16	-21	-20	-17	-20	-17	-18	-21	-22	-19	-21	-24	-20	-17	-17	-15	-16	-20	-23		
17	-20	-19	-15	-13	-14	-21	-23	-21	-18	-17	-15	-18	-19	-18	-14	-14	-14	-18	-23	-20	-19	-17	-19	-19		
18	-19	-19	-19	-19	-16	-15	-15	-14	-12	-12	-13	-14	-15	-15	-15	-19	-22	-18	-16	-14	-14	-15	-17	-18		
19	-19	-18	-18	-17	-14	-14	-12	-9	-8	-8	-8	-7	-7	-7	-7	-9	-11	-11	-10	-9	-7	-7	-8	-8		
20	-7	-8	-7	-6	-5	-4	-3	-3	-2	0	1	2	3	3	1	-1	-2	-1	0	1	2	1	-2	-1		
21	4	7	7	5	5	4	4	5	4	5	3	-2	0	-5	-4	-2	-4	-7	-10	-7	-8	-14	-15	-14		
22	-14	-13	-11	-10	-10	-11	-10	-9	-6	-7	-8	-10	-8	-11	-20	-25	-28	-29	-29	-30	-32	-38	-37	-41		
23	-39	-36	-35	-34	-38	-40	-36	-37	-36	-35	-32	-24	-18	-15	-12	-15	-8	-4	-3	-1	-1	-1	-2	-3		
24	0	4	4	-3	-3	-3	-2	1	2	0	-3	-4	-1	4	12	11	11	-3	-5	-4	-1	2	3	9		
25	9	3	5	6	6	5	0	0	-7	-17	-26	-30	-34	-29	-23	-18	-19	-17	-18	-18	-18	-19	-20	-17		
26	-19	-14	-8	-4	-3	-8	-11	-9	-9	-9	-9	-9	-10	-13	-12	-8	-6	-5	-7	-9	-9	-9	-14	-16		
27	-13	-10	-6	-2	-2	-2	-1	-1	2	3	1	0	2	2	2	1	3	7	6	3	-1	-3	-5	-5		
28	-3	0	4	4	4	1	-2	-1	-5	-12	-15	-11	-9	-6	0	0	0	4	3	3	1	-1	-3	-4		
29	-6	0	2	4	2	0	-1	1	2	-1	-4	-5	-4	-3	-3	-2	0	1	-2	-7	-7	-8	-12	-11		
30	-12	-9	-5	-3	-1	-4	-4	-10	-9	-12	-10	-8	-15	-12	-10	-5	-5	-7	-7	-10	-10	-13	-15	-14		
31	-13	-12	-10	-14	-10	-7	-5	-6	-11	-12	-12	-11	-10	-11	-11	-14	-16	-13	-15	-17	-12	-10	-8	-12		

