

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



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**PRELIMINARY REPORT ON RAPID VARIATIONS**

**NOVEMBER 1997**

SSC - Storm Sudden Commencements		SFE - Solar Flare Effects	
06 22 48	A : WNG* HRB* NAG* EBR* COI BJI SPT* QUE LNP HYB HER CNB* AMS* CZT* PAF* DRV* B : BDV* CLF GCK* MMB* FRD* KAK* HTY KNY* TEN* ETT C : NGK	03 0434-0530	MMB+ KAK+ KNY+
		03 0904-0918	BDV+ HER
		03 1025-1037	HER
		04 0236-0256	LNP
		04 0505-0604	BJI
		04 0556-0625	MMB+ KAK+ HTY+ KNY+ HYB ETT CNB+ (ssc: LNP)
22 09 49	A : DOB* NUR* WNG* HRB* MMB* COI BJI SPT* HYT KNY QUE LNP HYB ETT EBR* CNB* AMS CZT* PAF* B : BDV* GCK* FRD KAK TEN DRV* C : NGK CLF* EBR*	06 1145-1232	TEN
		06 1151-1240	WNG+ NGK BDV+ CLF NAG EBR+ TEN (ssc : HRB GCK COI* si :SPT)
30 08 09	B : COI BJI C : BDV EBR* ETT	07 1610-1625	NAG
		27 1312-1330	WNG+ NGK BDV+ CLF NAG EBR HER (ssc: SPT TEN)
		28 0456-0612	ETT
		28 0457-0530	MMB+ KAK+ KNY+
		28 0503-0509	LNP

REPORTING OBSERVATORIES (up to th 3rd of January 1998) :

DOB NUR WNG NGK BDV CLF HRB NAG GCK MMB EBR COI BJI SPT FRD KAK HTY KNY QUE TEN LNP HYB ETT  
 HER CNB AMS CZT PAF DRV

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
November 1997	29	27	28	21	2	23	22	7	6*	14*

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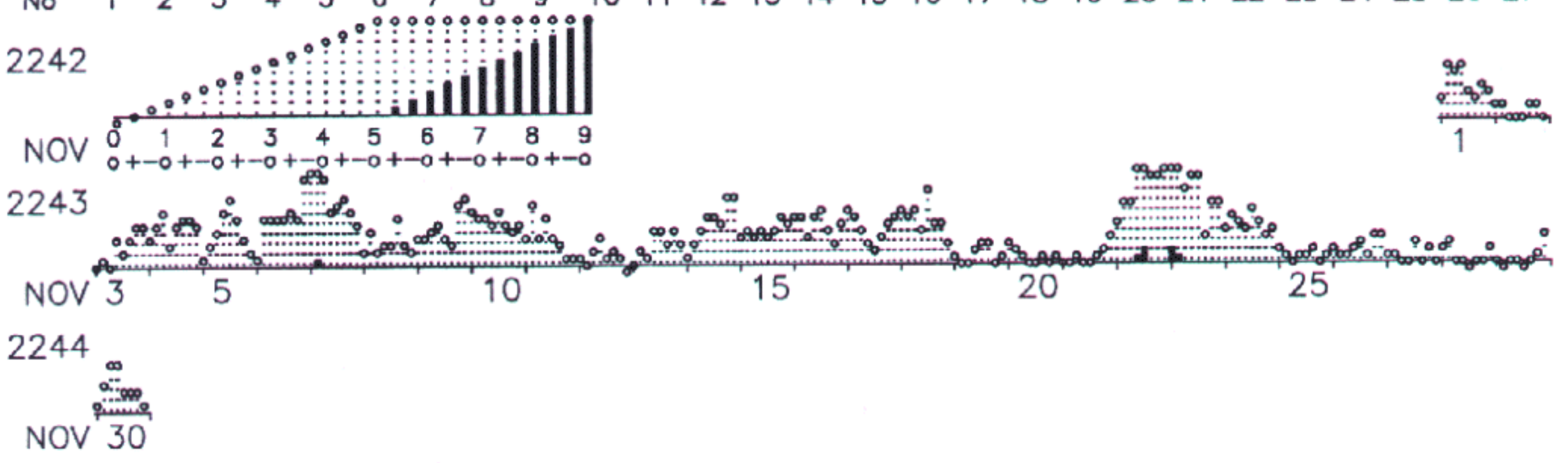
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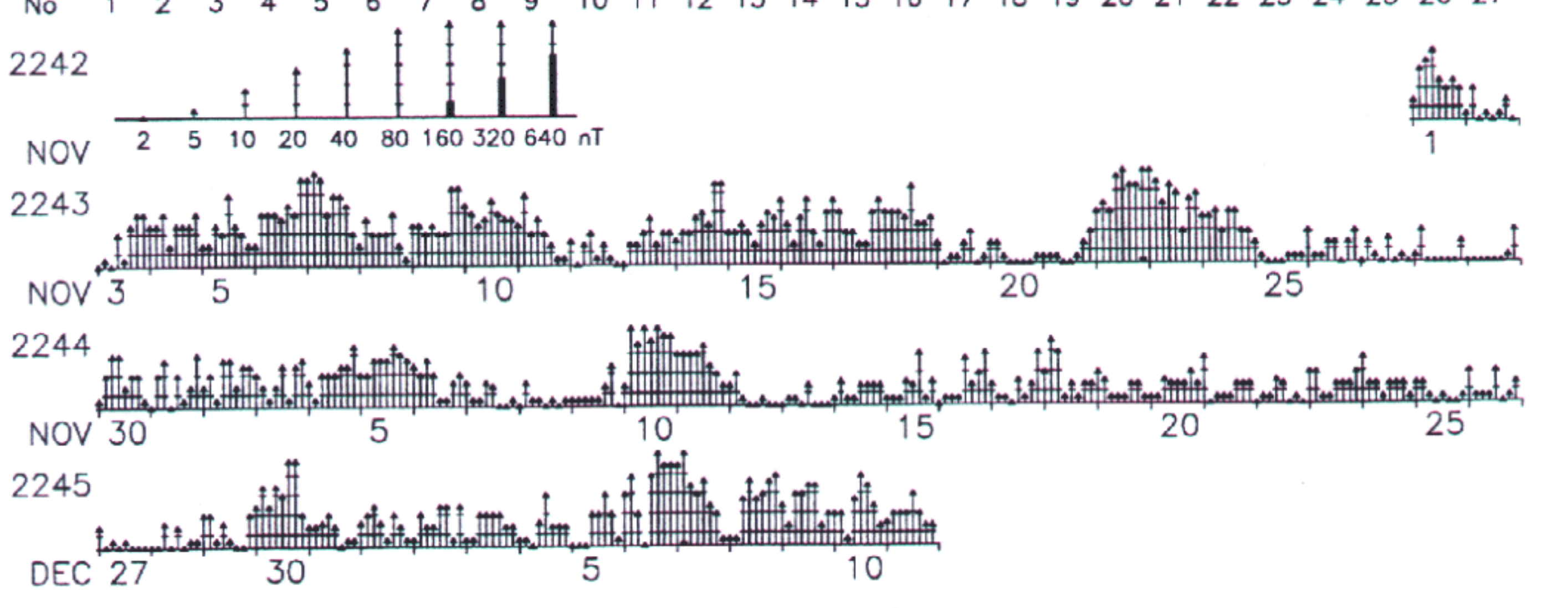
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NOVEMBER 1997		Geomagnetic Indices (provisional)											Daily Average and Sum					
	aa					quiet days	am and Km for each three hour interval								Am $\Sigma$ Km		Ap $\Sigma$ Kp	
	N	S	am	pm	D		1	2	3	4	5	6	7	8				
1	21	21	28	14	21		9 1+	29 3o	24 3-	33 3o	12 2-	10 1+	16 2o	13 2-	18	17-	8	16o
2	5	6	6	4	5	CC*	7 1o	7 1o	2 0+	3 0+	3 0+	6 1o	6 1o	3 0+	5	5+	2	3+
3	13	10	5	17	11	KK	3 0+	4 1-	2 0+	11 2-	6 1o	13 2-	17 2+	20 2+	10	10+	3	7o
4	17	17	16	18	17		13 2-	20 2+	28 3o	9 1+	19 2+	23 3-	23 3-	19 2+	19	18+	8	17+
5	14	18	11	21	16		4 1-	9 1+	14 2o	27 3o	48 4-	21 3-	13 2-	7 1o	18	16o	7	13+
6	30	29	20	39	30		5 1-	22 3-	21 3-	25 3-	21 3-	33 3o	24 3-	86 5-	30	22-	17	23o
7	52	54	72	34	53		94 5o	112 5+	84 5-	27 3o	40 3+	44 4-	32 3o	18 2+	56	30+	44	33o
8	10	15	13	12	13	C	7 1o	15 2o	7 1o	10 1+	8 1+	21 3-	9 1+	7 1o	11	12-	5	10o
9	30	21	15	35	25		13 2-	13 2-	16 2o	18 2+	13 2-	10 1+	40 3+	45 4-	21	18-	11	18+
10	17	32	23	26	24		32 3o	25 3-	23 3-	18 2+	30 3o	20 2+	15 2o	17 2+	23	20+	11	19o
11	12	19	24	8	16		13 2-	39 3+	12 2-	23 3-	12 2-	8 1+	5 1-	5 1-	15	6o	7	12+
12	7	6	8	5	6	CC	4 1-	2 0+	6 1o	11 2-	4 1-	7 1o	5 1-	0 0o	5	11-	2	4o
13	7	13	8	13	10	CC	2 0+	6 1o	5 1-	14 2o	14 2o	8 1+	15 2o	10 1+	9	19o	3	6+
14	34	23	13	44	28		4 1-	9 1+	14 2o	24 3-	23 3-	20 2+	43 4-	45 4-	23	16o	12	19o
15	18	12	13	17	15		13 2-	14 2o	13 2-	14 2o	12 2-	16 2o	23 3-	18 2+	15	18+	8	16+
16	19	22	20	21	20		24 3-	21 3-	11 2-	24 3-	31 3o	14 2o	10 1+	20 2+	19	17-	10	17+
17	24	16	21	19	20		28 3o	26 3-	14 2o	10 1+	6 1o	12 2-	20 2+	24 3-	18	21-	10	17-
18	27	24	23	28	25		30 3o	24 3-	28 3o	15 2o	59 4o	17 2+	19 2+	10 1+	25	6o	11	20o
19	7	5	5	7	6	CK	5 1-	2 0+	2 0+	7 1o	8 1+	10 1+	3 0+	4 1-	5	5+	3	6-
20	4	5	6	3	4	CC	8 1+	7 1o	5 1-	3 0+	3 0+	4 1-	2 0+	5 1-	5	5+	2	3+
21	4	7	4	7	6	CK*	3 0+	3 0+	5 1-	3 0+	3 0+	5 1-	6 1o	11 2-	5	34+	2	3-
22	68	56	40	84	62		20 2+	37 3+	37 3+	107 5+	140 6-	75 5-	75 5-	92 5o	73	33-	44	37o
23	66	34	65	35	50		146 6-	109 5+	53 4o	78 5-	72 5-	13 2-	34 3+	40 3+	68	18o	59	38o
24	21	16	19	18	19		15 2o	26 3-	19 2+	16 2o	27 3o	17 2+	11 2-	14 2o	18	5+	10	18+
25	5	4	4	4	4	CC	6 1o	5 1-	3 0+	5 1-	5 1-	7 1o	3 0+	4 1-	5	9-	2	4o
26	8	7	8	8	8	CC	7 1o	5 1-	4 1-	6 1o	10 1+	5 1-	11 2-	12 2-	8	5o	3	6+
27	5	4	4	5	4	CC*	4 1-	5 1-	3 0+	3 0+	10 1+	3 0+	6 1o	3 0+	5	5-	2	3o
28	4	6	5	4	4	CC*	6 1o	9 1+	2 0+	3 0+	1 0o	2 0+	3 0+	6 1o	4	4-	2	3-
29	4	4	2	5	4	CC*	2 0+	1 0o	2 0+	2 0+	1 0o	2 0+	4 1-	11 2-	3	12+	1	1+
30	13	13	16	9	13	KC	5 1-	11 2-	21 3-	23 3-	9 1+	9 1+	10 1+	4 1-	12	9o	5	12-

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) NOV 1997



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV 1997 - JAN 1998



Dst monthly table of hourly indices - November 1997

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

NOVEMBER 1997

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	-1	0	3	6	2	-7	3	14	15	7	-10	-11	-9	-6	-6	-4	-5	-5	-7	-9	-10	-11	-10	-11		
2	-13	-12	-10	-8	-9	-10	-9	-6	-7	-8	-8	-8	-8	-7	-7	-3	-2	1	2	-1	-1	-1	-3	-5		
3	-6	-7	-5	-1	0	1	3	5	4	4	0	-3	-2	1	2	5	3	-1	1	-2	-1	-3	-6	-4		
4	-2	0	3	-2	-10	-15	-16	-16	-21	-25	-29	-28	-27	-28	-26	-19	-15	-10	-12	-10	-4	-8	-11	-7		
5	-4	-3	-3	-2	0	-1	1	-4	-12	-23	-33	-40	-45	-37	-26	-28	-25	-24	-16	-14	-13	-10	-9	-9		
6	-9	-6	-6	-7	-12	-19	-30	-29	-26	-24	-22	-18	-16	-17	-24	-24	-29	-30	-29	-29	-26	-22	-16	2		
7	-23	-57	-85	-99	-104	-93	-95	-93	-85	-74	-72	-68	-65	-60	-55	-50	-52	-48	-41	-34	-34	-34	-29	-28		
8	-28	-26	-25	-25	-23	-28	-31	-29	-26	-21	-23	-24	-25	-23	-26	-27	-30	-23	-21	-23	-22	-22	-24	-26		
9	-25	-24	-25	-25	-21	-24	-23	-21	-20	-20	-18	-5	-11	-14	-15	-14	-14	-13	-10	-18	-22	-26	-29	-28		
10	-38	-46	-48	-46	-46	-48	-48	-44	-42	-40	-38	-38	-34	-29	-30	-37	-37	-31	-25	-19	-16	-18	-18	-13		
11	-14	-11	-12	-16	-16	-24	-28	-33	-35	-33	-35	-33	-36	-35	-34	-29	-27	-26	-25	-22	-19	-17	-17	-18		
12	-18	-17	-18	-18	-19	-21	-23	-25	-25	-23	-22	-21	-21	-18	-18	-15	-11	-10	-7	-8	-7	-6	-6	-8		
13	-5	-5	-7	-5	-7	-7	-6	-7	-7	-4	-1	-5	-7	-8	-6	-1	1	3	5	7	1	-3	-5	-6		
14	-6	-4	-1	-1	-2	-8	-8	-7	-8	-5	-8	-18	-34	-40	-40	-35	-29	-25	-25	-25	-29	-27	-26	-23		
15	-22	-24	-29	-34	-39	-45	-46	-44	-41	-38	-36	-32	-31	-30	-30	-29	-29	-28	-28	-29	-30	-29	-25	-20		
16	-17	-21	-23	-21	-21	-20	-23	-26	-23	-18	-16	-21	-27	-25	-22	-16	-14	-11	-10	-10	-8	-6	-9	-22		
17	-32	-38	-34	-26	-20	-20	-20	-20	-17	-20	-24	-22	-21	-20	-21	-19	-22	-20	-20	-21	-22	-22	-17	-15		
18	-20	-14	-3	-11	-7	-10	-13	-16	-17	-15	-12	-12	-22	-44	-38	-24	-26	-24	-23	-23	-23	-21	-21	-21		
19	-16	-17	-17	-13	-13	-13	-11	-9	-9	-8	-11	-13	-15	-11	-9	-9	-10	-9	-8	-7	-7	-7	-9	-11		
20	-11	-9	-6	-6	-4	-6	-4	-4	-5	-7	-7	-7	-8	-9	-9	-6	-4	-4	-4	-4	-5	-5	-6	-3		
21	-7	-8	-8	-8	-7	-7	-6	-4	-2	-1	-1	-2	-2	-3	-6	-5	-5	-3	-1	-2	-1	0	-3	-6		
22	-3	0	-6	-16	-26	-35	-42	-37	-32	-22	-2	-27	-81	-63	-70	-83	-68	-54	-53	-34	-15	-23	-44	-66		
23	-81	-81	-90	-102	-102	-103	-106	-103	-91	-89	-97	-111	-114	-102	-93	-83	-80	-77	-74	-68	-63	-64	-59	-54		
24	-55	-55	-54	-53	-47	-47	-46	-38	-35	-38	-40	-46	-48	-44	-32	-33	-35	-33	-34	-37	-36	-32	-31	-35		
25	-36	-40	-42	-42	-43	-45	-44	-40	-36	-32	-29	-29	-29	-28	-28	-26	-26	-26	-25	-25	-23	-22	-22	-24		
26	-24	-23	-20	-19	-17	-18	-19	-22	-22	-21	-22	-22	-24	-28	-26	-26	-25	-24	-22	-20	-19	-20	-17	-14		
27	-14	-14	-15	-16	-18	-16	-16	-16	-18	-17	-18	-18	-18	-17	-17	-17	-18	-18	-19	-19	-17	-15	-13	-10		
28	-10	-10	-13	-14	-10	-6	-5	-9	-12	-12	-14	-16	-17	-17	-16	-14	-13	-12	-11	-11	-11	-14	-15	-15		
29	-14	-12	-10	-7	-5	-5	-6	-7	-9	-9	-10	-8	-6	-6	-7	-7	-6	-5	-5	-5	-7	-8	-8	-5		
30	0	3	3	4	7	9	7	4	14	7	6	2	-4	-6	-8	-9	-8	-9	-9	-10	-10	-12	-14	-11		

