

FEDERATION DES SERVICES D'ANALYSE DE DONNEES ASTRONOMIQUES ET GEOPHYSIQUES  
 FEDERATION OF ASTRONOMICAL AND GEOPHYSICAL DATA ANALYSIS SERVICES  
 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



**Bureau des Publications SIIG - Bulletin Mensuel n°97-02 - février 1997**  
**ISGI Publications Office Monthly Bulletin n°97-02-February 1997**

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

**Nous avons la tristesse de vous annoncer le décès de Annick BERTHELIER, le 24 Mars 1997 des suites d'une longue maladie contre laquelle elle a lutté avec courage et lucidité.**

**We are very sad to announce the death of Annick BERTHELIER on March 24, 1997. She passed away after a long illness she fought with outstanding courage.**

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).  
 Nous remercions aussi tout particulièrement les collaborateurs du Bulletin (cités ci-dessous) qui nous fournissent les données à diffuser dans des délais aussi brefs que possible.

*This Bulletin is freely offered to interested Scientists thanks to a dotation from FAGS, and to the support of the hosting laboratory CETP and of French Organisations of Scientific Research (CNRS, INSU, BCMT).  
 Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.*

PRELIMINARY REPORT ON RAPID VARIATIONS		FEBRUARY 1997
<p style="text-align: center;"><b>SSC - Storm Sudden Commencements</b></p> <p>09 13 21    A : DOB* HRB* COI* HER                                        B : BDV* NAG MMB EBR* SPT* TEN LNP HYB                                                ETT CNB AMS AMS AMS CZT PAF*</p> <p>27 18 10    A : HRB                                        C : BDV* NAG MMB* SPT* FRD* KAK KNY                                                QUE TEN LNP HER</p>	<p style="text-align: center;"><b>SFE - Solar Flare Effects</b></p> <p>08 1356-1408    TEN                      23 1028-1044    TEN                      23 1400-1418    TEN</p>	
<p>REPORTING OBSERVATORIES (up to the 4th of April 1997) :                      SOD DOB NUR WNG NGK BDV CLF HRB NAG GCK MMB EBR COI BJI SPT FRD                      KAK KNY QUE TEN LNP HYB ETT HER CNB AMS CZT PAF DRV</p>		

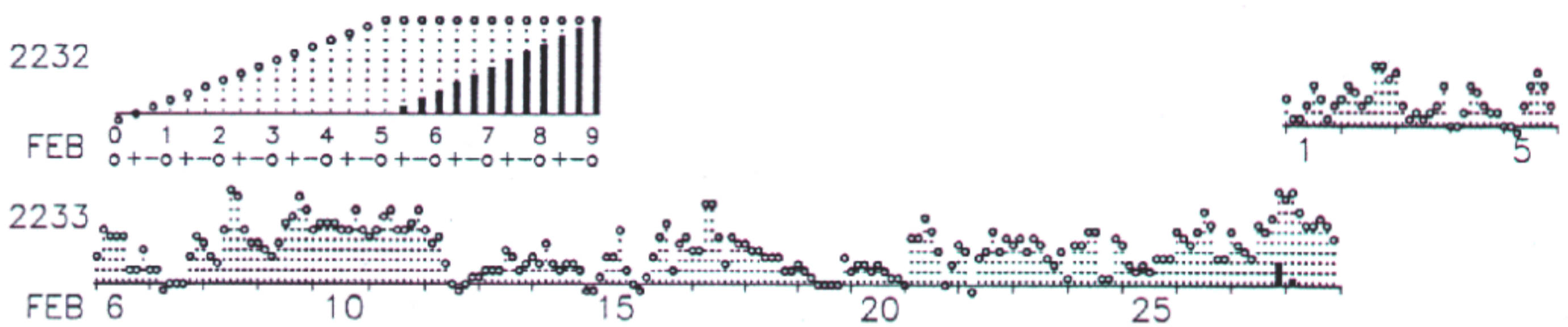
	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
February 1997	19	20	4	13	7	28	27	10	11	8

Directeur de la Publication : J. PARIS- Edité le 24/04/97 par E. LEMAULF  
 Collaborateurs : J.O. CARDUS - J. GAPIHAN - T. KAMEI - M. MENVIELLE - M. SIEBERT - M. SUGIURA  
 Bureau des Publications du SIIG - fondé par A. BERTHELIER  
 CETP, 4, avenue Neptune - 94107 SAINT MAUR DES FOSSES CEDEX - FRANCE  
 Téléphone : +33 +1 45 11 42 30 -Télécopie : +33 +1 48 89 44 33  
 Email : INTERNET : Josette.PARIS@cetp.ipsl.fr

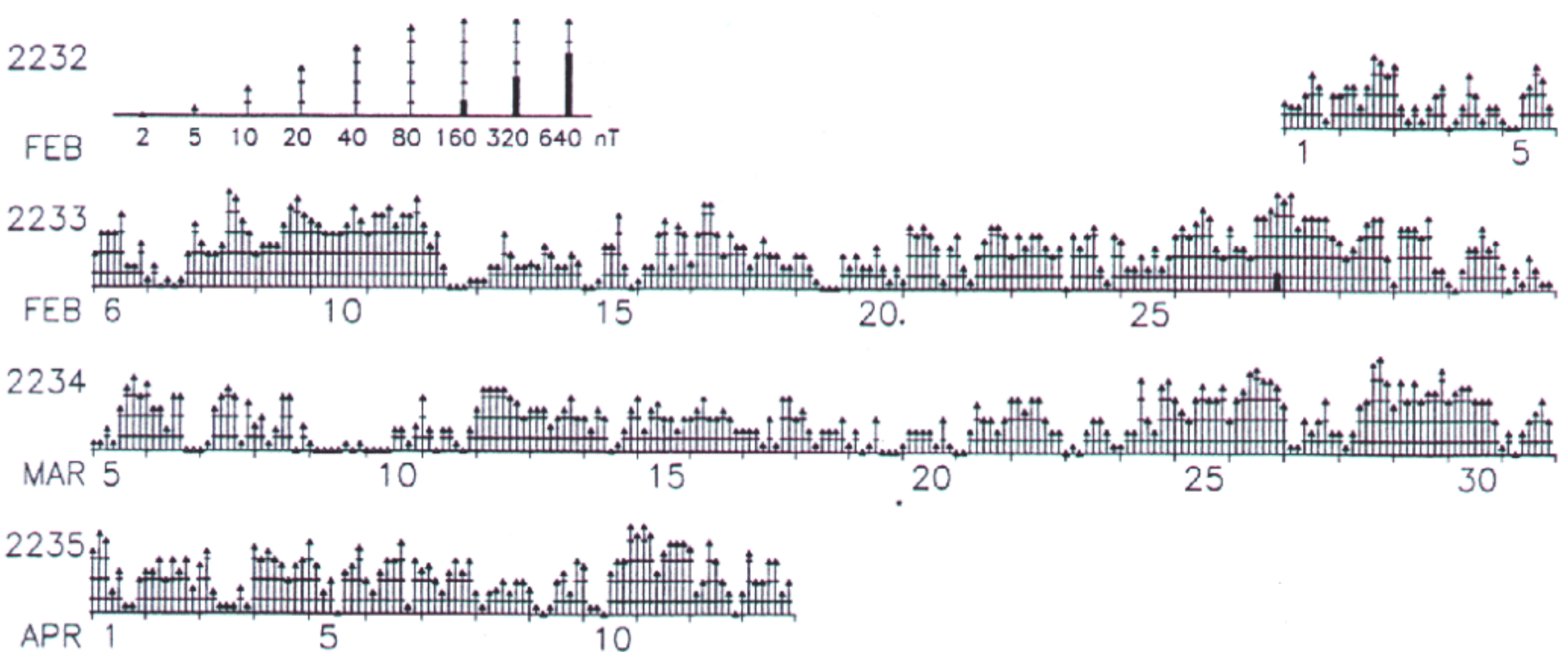


FEBRUARY 1997 Geomagnetic Indices (provisional)																	Daily Average and Sum			
	aa					quiet days	am and Km for each three hour interval								Am $\Sigma$ Km		Ap $\Sigma$ Kp			
	N	S	am	pm	D		1	2	3	4	5	6	7	8						
1	10	13	9	14	12	CC	12 2-	5 1-	5 1-	8 1+	17 2+	13 2-	5 1-	8 1+	9	10+	5	10-		
2	26	17	13	31	22		11 2-	19 2+	14 2o	8 1+	13 2-	38 3+	34 3+	25 3-	20	18+	11	19-		
3	15	9	14	10	12	K	30 3o	9 1+	5 1-	7 1o	4 1-	7 1o	10 1+	17 2+	11	11+	7	11+		
4	7	11	10	8	9	CC*	2 0+	3 0+	7 1o	20 2+	16 2o	9 1+	6 1o	6 1o	9	9+	4	8-		
5	13	11	5	19	12	KK	3 0+	2 0+	0 0o	9 1+	18 2+	27 3o	19 2+	8 1+	11	11o	6	11-		
6	22	19	21	20	20		11 2-	28 3o	24 3-	23 3-	26 3-	7 1o	7 1o	14 2o	18	17-	10	17o		
7	13	5	5	13	9	KK*	7 1o	6 1o	1 0o	3 0+	2 0+	3 0+	11 2-	21 3-	7	7+	4	8o		
8	44	31	14	61	38		17 2+	13 2-	10 1+	30 3o	101 5o	79 5-	32 3o	20 2+	38	23+	22	24+		
9	39	30	15	54	35		17 2+	16 2o	11 2-	19 2+	37 3+	47 4-	86 5-	57 4o	36	24o	20	26-		
10	38	30	29	38	34		29 3o	36 3+	36 3+	35 3+	33 3o	32 3o	52 4o	31 3o	36	26o	22	29o		
11	42	53	44	51	47		24 3-	31 3o	48 4-	56 4o	31 3o	32 3o	39 3+	56 4o	40	27-	21	28o		
12	13	10	20	3	12	K	27 3o	19 2+	24 3-	10 1+	3 0+	0 0o	2 0+	4 1-	11	11-	7	11-		
13	8	11	7	13	10	CC*	5 1-	6 1o	7 1o	7 1o	16 2o	12 2-	6 1o	8 1+	8	10-	4	8+		
14	12	9	11	9	10	CC	13 2-	8 1+	17 2+	9 1+	6 1o	8 1+	9 1+	6 1o	10	11+	5	11-		
15	11	14	6	18	12	KK	0 0o	0 0o	5 1-	11 2-	13 2-	32 3o	6 1o	2 0+	9	8+	4	8o		
16	15	22	11	26	18		1 0o	4 1-	12 2-	22 3-	37 3+	7 1o	20 2+	24 3-	16	14+	8	15-		
17	23	38	42	19	30		15 2o	16 2o	68 4+	63 4+	24 3-	8 1+	25 3-	18 2+	30	22-	14	21o		
18	9	15	14	10	12	CC	18 2+	14 2o	15 2o	11 2-	13 2-	12 2-	7 1o	7 1o	12	13+	6	12+		
19	6	8	9	5	7	CC*	8 1+	6 1o	4 1-	2 0+	2 0+	2 0+	3 0+	11 2-	5	6o	3	5+		
20	9	9	9	9	9	CK*	6 1o	10 1+	8 1+	7 1o	10 1+	7 1o	4 1-	5 1-	7	8+	4	8o		
21	17	22	23	15	19		3 0+	25 3-	24 3-	44 4-	27 3o	15 2o	3 0+	10 1+	19	16o	10	17o		
22	19	20	12	27	20		20 2+	15 2o	1 0o	12 2-	16 2o	27 3o	15 2o	24 3-	16	16-	8	16-		
23	17	19	19	17	18		19 2+	22 3-	15 2o	22 3-	18 2+	12 2-	10 1+	14 2o	17	17o	9	18-		
24	15	19	17	17	17		4 1-	19 2+	20 2+	31 3o	27 3o	5 1-	5 1-	23 3-	17	15+	9	15+		
25	13	10	12	11	12	C	20 2+	8 1+	6 1o	8 1+	6 1o	13 2-	11 2-	12 2-	11	12o	6	11o		
26	35	28	29	33	31		28 3o	26 3-	19 2+	30 3o	54 4o	40 3+	13 2-	11 2-	28	22-	15	23-		
27	45	54	19	81	50		28 3o	19 2+	15 2o	12 2-	38 3+	32 3o	49 4-	147 6o	43	25o	30	27o		
28	56	49	65	40	53		75 5-	117 5+	59 4o	37 3+	36 3+	41 4-	38 3+	24 3-	53	30+	37	34o		

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



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





**Bureau des Publications SIIG - Bulletin Mensuel n° 97 - 2 - February - 1997**  
**Dst monthly table of hourly indices - February 1997**

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

FEBRUARY 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	-17	-16	-16	-13	-10	-3	-2	-1	-4	-8	-11	-12	-10	-13	-18	-18	-16	-16	-15	-14	-11	-11	-11	-9		
2	-11	-14	-11	-11	-18	-16	-10	-6	-7	-9	-8	-11	-12	-13	-11	-8	-15	-18	-21	-19	-18	-20	-21	-20		
3	-16	-18	-18	-19	-20	-21	-20	-19	-18	-16	-17	-16	-18	-17	-19	-20	-18	-16	-15	-16	-15	-12	-13	-13		
4	-14	-13	-14	-14	-13	-12	-12	-11	-10	-9	-5	-10	-13	-13	-12	-8	-9	-8	-7	-6	-6	-7	-7	-7		
5	-8	-9	-9	-7	-7	-6	-6	-6	-6	-6	-2	-1	0	3	-1	-1	-8	-16	-17	-14	-8	-1	0	2		
6	3	0	0	-2	-9	-13	-12	-15	-17	-15	-15	-15	-14	-12	-13	-14	-15	-15	-13	-14	-14	-14	-13	-10		
7	-9	-9	-11	-10	-8	-7	-6	-5	-4	-4	-6	-5	-2	0	0	2	3	0	-2	-1	-1	-1	-6	-4		
8	1	0	2	1	-1	2	8	5	-5	-10	-6	-3	-16	-32	-44	-35	-34	-37	-36	-35	-27	-21	-17	-17		
9	-18	-18	-17	-18	-14	-15	-16	-18	-23	-28	-30	-27	-24	-11	-13	-14	-13	-27	-48	-48	-54	-53	-44	-43		
10	-40	-41	-33	-36	-44	-49	-55	-59	-63	-69	-72	-71	-69	-64	-62	-63	-62	-61	-58	-52	-50	-45	-41	-40		
11	-39	-31	-26	-30	-29	-19	-25	-38	-50	-62	-62	-49	-41	-36	-37	-35	-31	-30	-37	-35	-35	-28	-32	-38		
12	-30	-33	-31	-27	-27	-30	-27	-22	-26	-27	-28	-27	-21	-19	-19	-19	-17	-17	-17	-17	-15	-14	-14	-12		
13	-13	-13	-15	-15	-15	-15	-12	-13	-16	-12	-11	-9	-12	-15	-14	-15	-13	-15	-16	-14	-13	-14	-14	-12		
14	-12	-12	-13	-14	-15	-16	-18	-18	-18	-15	-14	-14	-13	-15	-18	-17	-17	-14	-15	-17	-17	-13	-11	-9		
15	-9	-10	-9	-9	-9	-7	-7	-9	-10	-6	-9	-9	-9	-7	-13	-22	-19	-16	-15	-13	-15	-12	-11	-6		
16	-6	-9	-12	-14	-14	-11	-16	-23	-25	-23	-23	-26	-33	-32	-21	-16	-14	-18	-26	-30	-30	-27	-29	-28		
17	-26	-24	-25	-29	-31	-30	-36	-49	-55	-49	-43	-41	-35	-25	-25	-23	-19	-20	-15	-23	-24	-24	-26	-26		
18	-26	-26	-28	-25	-23	-21	-20	-22	-22	-24	-26	-22	-18	-18	-19	-17	-16	-13	-13	-11	-11	-9	-6	-5		
19	-8	-8	-6	-5	-5	-6	-6	-5	-2	-3	-4	-3	-1	1	0	-4	-6	-5	-2	-2	-4	-3	-1	-2		
20	-3	-4	-3	-3	-1	0	1	1	1	-2	-5	-3	-2	-2	-2	-2	-2	1	0	-1	-1	-2	2	5		
21	6	8	7	9	9	6	2	-5	-8	-14	-23	-26	-22	-24	-19	-12	-10	-9	-8	-8	-9	-8	-4	-7		
22	-10	-10	-12	-16	-13	-9	-6	-6	-8	-10	-9	-10	-10	-12	-20	-29	-35	-32	-28	-23	-21	-24	-21	-14		
23	-14	-16	-19	-25	-30	-28	-23	-22	-23	-22	-16	-6	-3	0	1	0	-3	-9	-11	-11	-7	-6	-12	-8		
24	-5	-4	0	-1	-9	-5	-1	-1	-11	-21	-18	-23	-30	-24	-18	-16	-14	-12	-13	-14	-13	-11	-12	-8		
25	-8	-9	-5	-8	-13	-13	-12	-12	-13	-14	-13	-11	-8	-7	-9	-10	-13	-13	-14	-16	-16	-13	-11	-4		
26	-6	-5	-9	-16	-19	-11	-7	-9	-18	-26	-24	-22	-28	-23	-28	-24	-13	-10	-12	-13	-7	-3	1	4		
27	-2	-11	-15	-18	-23	-20	-20	-27	-27	-26	-27	-25	-21	-19	-22	-24	-25	-23	-18	-20	-13	-27	-48	-68		
28	-67	-55	-57	-56	-55	-60	-51	-51	-53	-57	-58	-58	-57	-43	-43	-42	-40	-46	-51	-43	-41	-36	-31	-30		

