

FEDERATION DES SERVICES D'ANALYSE DE DONNEES ASTRONOMIQUES ET GEOPHYSIQUES
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 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
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PRELIMINARY REPORT ON RAPID VARIATIONS

MARCH 1999

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

10 01 30 A : WNG NAG COI BJI
 B : DOU HRB GCK* EBR
 C : NGK* BDV* MMB* SPT KAK* KNY* QUE HYB ETT

29 01 52 A : COI*
 B : WNG DOU
 C : NGK BDV GCK*

12 0258-0314 NAG
 (ssc. BJI si : HRB)
 14 0122-0150 MMB+
 17 0951-1003 BDV+
 18 0830-0845 HYB
 19 0741-0803 NAG

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

SOD NUR WNG NGK VAL DOU BDV CLF HRB NAG GCK MMB EBR COI BJI SPT KAK KNY QUE HYB ETT
 GNA HER CNB

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
March 1999	22	16	24	27	20	1	4	10	29	7

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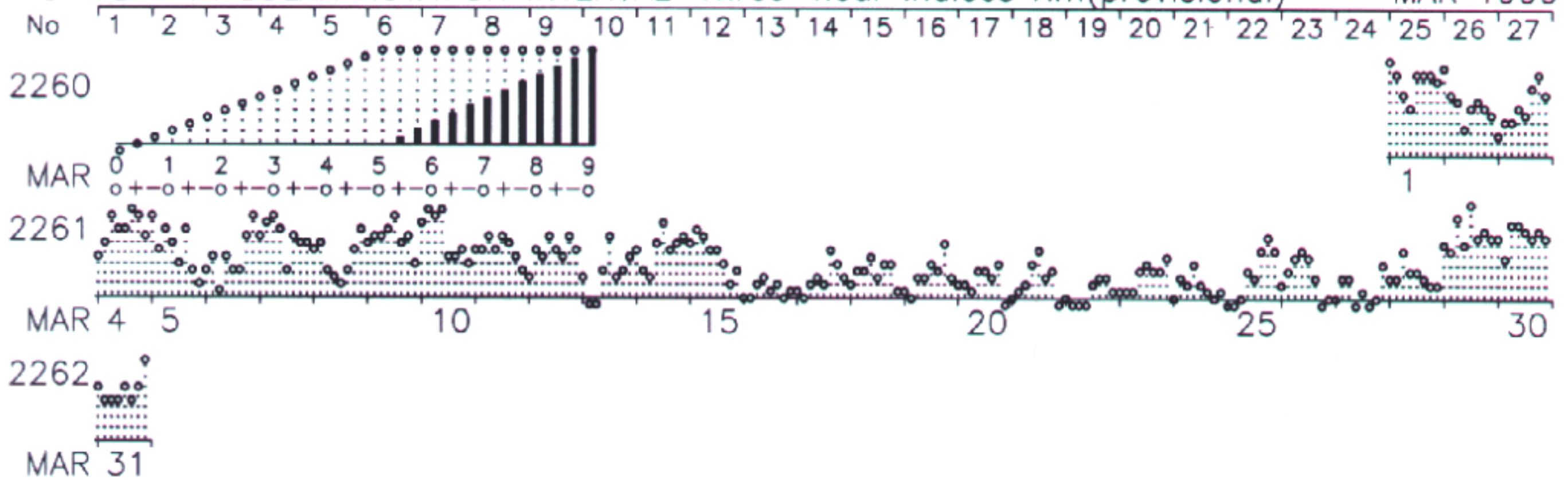
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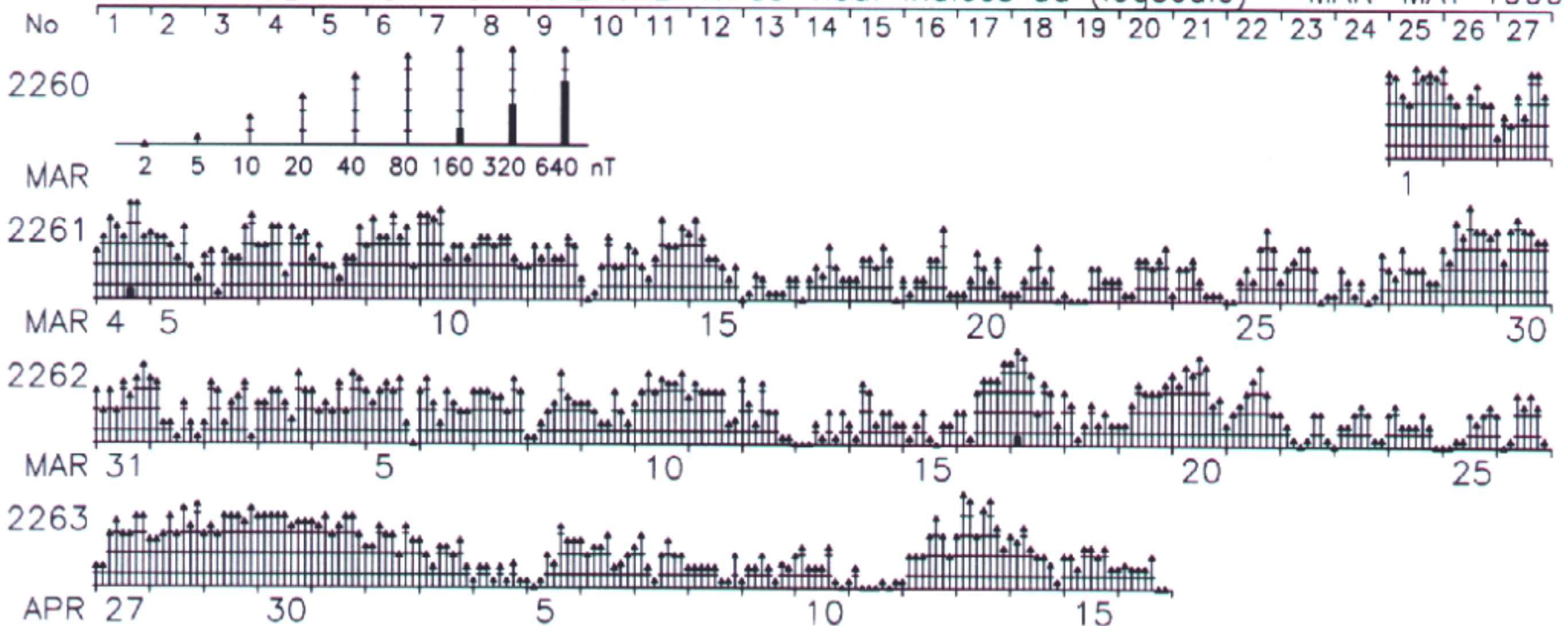
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MARCH 1999		Geomagnetic Indices (provisional)												Daily Average and Sum				
aa		quiet	am and Km for each three hour interval								Daily Average and Sum							
N	S	am	pm	D	days	1	2	3	4	5	6	7	8	Am	Σ Km	Ap	Σ Kp	
1	60	51	46	67	56		89 5o	67 4+	34 3+	22 3-	65 4+	63 4+	61 4+	58 4o	57	32+	41	37-
2	39	30	37	31	34		80 5-	37 3+	28 3o	11 2-	26 3-	31 3o	23 3-	19 2+	32	23+	22	26o
3	40	22	17	46	31		9 1+	16 2o	15 2o	26 3-	18 2+	44 4-	63 4+	28	22-	16	23+	
4	61	54	39	76	57		20 2+	30 3o	69 4+	43 4-	43 4-	79 5-	70 4+	49	29+	30	33-	
5	29	22	31	20	26		61 4+	26 3-	41 4-	29 3o	15 2o	41 4-	12 2-	29	22o	16	22o	
6	34	18	16	36	26		12 2-	19 2+	4 1-	20 2+	13 2-	13 2-	40 3+	23	18o	13	20+	
7	36	29	35	31	33		34 3+	54 4o	69 4+	47 4-	12 2-	39 3+	28 3o	39	26+	22	28o	
8	22	15	16	21	19		21 3-	29 3o	11 2-	10 1+	7 1o	13 2-	21 3-	20	18-	12	20-	
9	36	40	37	39	38		29 3o	37 3+	35 3+	45 4-	68 4+	28 3o	39 3+	37	26o	21	28-	
10	52	37	69	20	44		57 4o	81 5-	62 4+	82 5-	18 2+	18 2+	25 3-	45	27o	34	31o	
11	28	23	28	23	26		25 3-	26 3-	38 3+	25 3-	37 3+	32 3o	17 2+	26	22-	15	23+	
12	19	22	19	22	21		8 1+	23 3-	20 2+	39 3+	24 3-	18 2+	36 3+	24	21-	11	20o	
13	15	11	7	20	13	K	10 1+	0 0o	1 0o	13 2-	36 3+	10 1+	13 2-	13	12-	6	11+	
14	31	21	14	38	26		22 3-	13 2-	8 1+	27 3o	51 4o	25 3-	28 3o	26	22-	15	23+	
15	27	21	36	12	24		28 3o	48 4-	39 3+	24 3-	25 3-	14 2o	7 1o	25	20o	14	21o	
16	7	5	6	6	6	CC*	3 0+	2 0+	6 1o	10 1+	4 1-	6 1o	3 0+	5	6-	3	6+	
17	13	8	8	13	10	CC	5 1-	2 0+	7 1o	10 1+	7 1o	22 3-	14 2o	9	10+	5	9+	
18	14	11	12	14	13	CC	7 1o	12 2-	13 2-	20 2+	10 1+	16 2o	14 2o	12	13-	6	13o	
19	16	12	7	21	14	K	5 1-	2 0+	9 1+	9 1+	16 2o	13 2-	28 3o	11	12-	6	13-	
20	8	12	10	10	10	CK*	6 1o	6 1o	4 1-	11 2-	13 2-	10 1+	14 2o	8	9+	5	10o	
21	10	9	8	12	10	CC	3 0+	4 1-	7 1o	14 2o	21 3-	8 1+	11 2-	9	10-	5	9o	
22	8	5	3	10	6	CC*	2 0+	0 0o	1 0o	1 0o	7 1o	9 1+	8 1+	4	5-	3	5o	
23	14	11	9	17	13	CC	4 1-	4 1-	4 1-	11 2-	14 2o	12 2-	12 2-	10	11+	6	12-	
24	10	7	11	6	9	CC*	3 0+	9 1+	7 1o	15 2o	6 1o	4 1-	2 0+	6	7+	4	7-	
25	19	13	6	25	16	K	1 0o	0 0o	3 0+	13 2-	8 1+	25 3-	38 3+	14	12o	8	13-	
26	9	17	15	11	13	K	7 1o	12 2-	17 2+	26 3-	19 2+	10 1+	0 0o	12	12-	6	12-	
27	11	5	8	9	8	CC*	3 0+	8 1+	8 1+	1 0o	4 1-	1 0o	3 0+	6	6o	4	8o	
28	13	11	14	10	12	C	9 1+	8 1+	21 3-	13 2-	12 2-	10 1+	7 1o	11	12o	6	13-	
29	55	37	34	57	46		28 3o	26 3-	64 4+	31 3o	102 5o	40 3+	42 4-	47	28+	28	31+	
30	36	46	44	39	41		34 3+	18 2+	56 4o	59 4o	45 4-	40 3+	45 4-	42	28-	22	29-	
31	33	22	18	37	28		31 3o	20 2+	19 2+	18 2+	27 3o	17 2+	27 3o	28	23-	15	23+	

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



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



HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

MARCH 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	-87	-85	-83	-76	-72	-82	-77	-62	-51	-39	-31	-28	-39	-55	-55	-56	-78	-85	-91	-97	-85	-74	-59	-59	
2	-52	-64	-74	-64	-62	-60	-58	-64	-60	-52	-41	-35	-34	-34	-37	-40	-39	-34	-28	-32	-37	-30	-27	-27	
3	-26	-26	-24	-28	-26	-24	-23	-26	-32	-31	-37	-38	-36	-42	-44	-45	-48	-42	-42	-47	-37	-35	-35	-35	
4	-38	-30	-21	-18	-23	-25	-22	-27	-44	-32	-36	-32	-26	-28	-35	-34	-33	-29	-30	-36	-35	-37	-38	-45	
5	-44	-37	-39	-44	-39	-37	-35	-37	-33	-23	-23	-20	-17	-17	-19	-27	-30	-24	-19	-15	-17	-17	-18	-20	
6	-21	-23	-26	-29	-27	-25	-21	-19	-21	-23	-22	-13	-12	-17	-26	-28	-30	-26	-22	-26	-28	-32	-37	-32	
7	-37	-40	-38	-38	-37	-43	-54	-54	-50	-54	-55	-37	-31	-32	-32	-33	-35	-39	-42	-44	-50	-45	-34	-31	
8	-32	-32	-29	-26	-27	-31	-33	-30	-27	-23	-20	-17	-16	-19	-21	-20	-20	-19	-17	-17	-21	-21	-22	-28	
9	-31	-35	-38	-39	-36	-38	-34	-27	-28	-30	-31	-30	-39	-38	-45	-48	-43	-41	-36	-33	-33	-30	-32	-34	
10	-35	-29	-25	-46	-60	-56	-48	-65	-78	-62	-35	-28	-35	-39	-42	-41	-38	-30	-28	-33	-35	-34	-33	-33	
11	-34	-35	-32	-27	-23	-19	-16	-25	-33	-29	-19	-13	-27	-30	-30	-23	-12	-6	-11	-13	-14	-11	-10	-13	
12	-10	-10	-9	-22	-20	-13	-7	-6	-8	-10	-10	-22	-25	-16	-6	-6	-9	-4	-5	-9	-13	-17	-9	-9	
13	-9	-5	-1	-4	-5	-5	-5	-7	-8	-5	0	0	-9	-13	-17	-12	-11	-11	-13	-16	-17	-16	-16	-19	
14	-16	-11	-10	-12	-12	-14	-13	-10	-11	-13	-14	-15	-17	1	3	-7	-6	-12	-1	5	-10	-9	-5	-11	
15	-15	-10	-8	-16	-16	-29	-33	-33	-36	-33	-32	-27	-19	-20	-23	-25	-21	-18	-16	-17	-19	-20	-20	-18	
16	-14	-10	-7	-7	-8	-6	-6	-8	-9	-5	-4	-4	-4	-6	-7	-6	-6	-4	-3	-1	-1	1	3	3	
17	3	4	5	4	6	8	7	5	2	2	2	3	1	-1	-2	-1	-3	-3	-2	-3	-2	0	-1	-2	
18	-3	-1	4	4	4	2	4	0	-1	-1	-2	3	4	2	0	0	0	-2	0	2	3	2	1	1	
19	3	6	7	7	8	9	8	4	1	0	4	11	9	-1	-12	-20	-23	-22	-24	-24	-24	-27	-25	-21	
20	-19	-18	-18	-18	-18	-17	-12	-10	-11	-15	-14	-14	-14	-10	-5	-5	-5	-6	-10	-10	-9	-10	-12	-12	
21	-13	-13	-10	-6	-3	2	2	3	1	2	-1	0	3	-1	0	2	3	5	6	1	1	2	1	0	
22	-2	-3	-3	-1	2	4	4	4	3	4	2	1	3	4	3	3	8	8	8	8	9	11	11	10	
23	7	5	7	10	12	16	16	15	14	16	17	21	18	11	11	11	9	9	9	10	9	7	2	4	
24	7	7	5	4	2	2	2	3	3	2	4	4	4	4	3	4	3	4	7	7	5	7	6	6	
25	6	7	8	7	7	10	12	12	12	12	12	15	17	17	18	19	19	6	-11	-29	-29	-23	-16	-12	
26	-10	-10	-11	-8	-4	-5	-7	-11	-15	-9	1	-1	-12	-15	-9	-7	-8	-7	-6	-3	-3	1	3	2	
27	0	-2	-2	-3	-2	-4	-4	-3	0	2	3	5	5	4	3	3	1	0	2	4	2	2	1	-2	
28	-3	-6	-7	-6	-5	-5	-5	-4	0	3	2	2	5	0	-4	-1	6	9	11	13	12	12	16	21	
29	28	20	8	16	16	15	12	16	7	6	5	8	-11	-51	-66	-54	-42	-38	-36	-38	-35	-31	-30	-26	
30	-35	-34	-35	-28	-24	-21	-24	-35	-50	-42	-33	-23	-19	-26	-29	-29	-29	-33	-37	-37	-39	-45	-46	-44	
31	-46	-42	-38	-37	-38	-36	-30	-29	-26	-29	-28	-27	-28	-27	-27	-22	-23	-21	-20	-24	-24	-22	-29	-27	

