

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



Bureau des Publications SIIG - Bulletin Mensuel n°98 - 12 - Décembre 1998
 ISGI Publications Office Monthly Bulletin n°98 - 12 - December 1998

C O N T E N T S

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

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

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PRELIMINARY REPORT ON RAPID VARIATIONS

DECEMBER 1998

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

01 03 33 B : WNG COI BJI LNP
 C : NAG EBR* SPT
 28 18 26 A : BJI
 B : WNG CLF* QUE
 C : NGK BDV* LNP HYB ETT GNA CNB*

02 0822-0837 BDV
 17 0743-0755 KNY+
 28 0546-0600 KAK+ KNY+ (ssc : ETT)
 31 0205-0221 BDV

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

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

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

December 1998	17	18	27	13	21	11	29	26*	5*	25*
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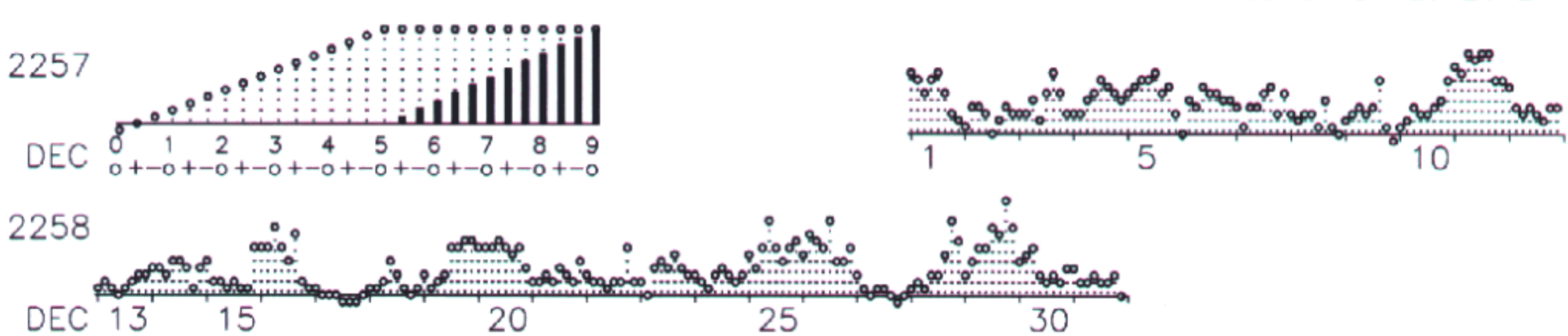
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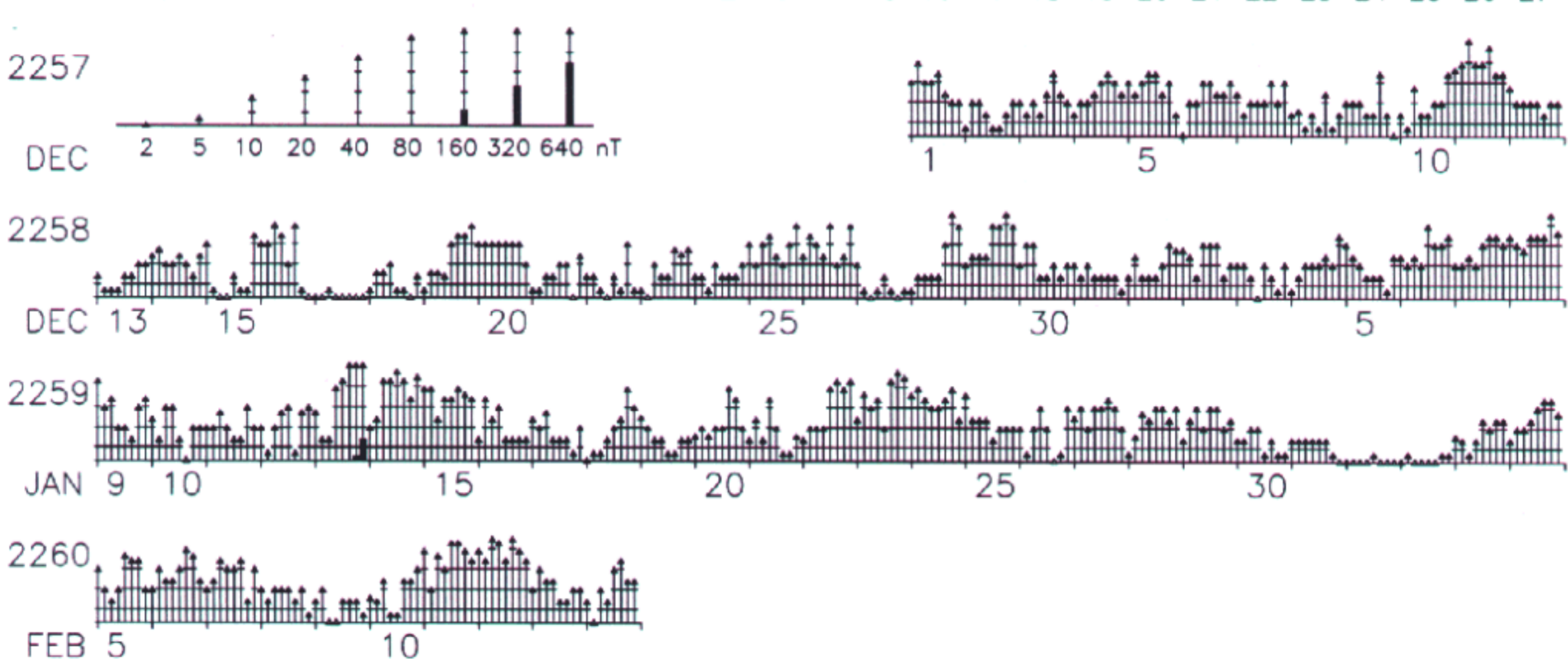
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DECEMBER 1998 Geomagnetic Indices (provisional)														Daily Average and Sum				
	aa				quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp		
	N	S	am	pm		D	1	2	3	4	5	6	7	8				
1	23	25	30	18	24		35 3+	31 3o	19 2+	28 3o	36 3+	20 2+	10 1+	7 1o	23	20-	11	19+
2	8	9	9	8	8	CC	5 1-	11 2-	13 2-	8 1+	3 0+	7 1o	11 2-	10 1+	9	10-	4	9o
3	14	15	10	19	15	C	8 1+	8 1+	15 2o	7 1o	20 2+	36 3+	17 2+	10 1+	15	15o	7	14o
4	18	18	12	24	18		10 1+	10 1+	14 2o	17 2+	28 3o	26 3-	20 2+	14 2o	17	17o	10	19-
5	25	19	24	20	22		20 2+	21 3-	28 3o	30 3o	37 3+	17 2+	25 3-	8 1+	23	21-	14	22o
6	18	15	13	20	16		2 0+	14 2o	13 2-	22 3-	20 2+	18 2+	15 2o	14 2o	15	15+	7	15o
7	17	13	12	18	15		12 2-	5 1-	13 2-	13 2-	18 2+	22 3-	9 1+	20 2+	14	14+	8	15-
8	7	9	8	9	8	CC	10 1+	6 1o	8 1+	9 1+	5 1-	14 2o	5 1-	3 0+	8	9-	4	8-
9	12	11	11	13	12	KC	7 1o	9 1+	13 2-	10 1+	11 2-	31 3o	5 1-	0 0o	11	11-	6	12o
10	12	14	10	16	13	K	5 1-	6 1o	11 2-	8 1+	10 1+	13 2-	15 2o	29 3o	12	13-	6	12+
11	56	49	58	48	53		43 4-	35 3+	64 4+	58 4o	61 4+	68 4+	31 3o	30 3o	49	30o	33	34o
12	15	10	14	11	13	C	24 3-	13 2-	9 1+	12 2-	8 1+	7 1o	11 2-	11 2-	12	13o	7	14-
13	6	10	6	10	8	CC*	5 1-	6 1o	5 1-	3 0+	5 1-	7 1o	10 1+	10 1+	6	7o	3	6-
14	11	17	15	13	14	C	13 2-	13 2-	8 1+	14 2o	14 2o	13 2-	5 1-	13 2-	12	13-	5	11o
15	12	9	8	13	10	K	14 2o	6 1o	6 1o	4 1-	7 1o	5 1-	5 1-	23 3-	9	10-	6	10o
16	23	24	32	16	24		23 3-	21 3-	43 4-	25 3-	16 2o	36 3+	6 1o	4 1-	22	19-	12	19-
17	2	3	3	2	2	CK*	4 1-	2 0+	3 0+	2 0+	0 0o	1 0o	1 0o	2 0+	2	2o	0	0+
18	5	9	9	5	7	CC*	4 1-	5 1-	6 1o	15 2o	8 1+	4 1-	3 0+	5 1-	6	7+	3	5-
19	20	22	8	33	21		8 1+	5 1-	6 1o	10 1+	21 3-	25 3-	28 3o	30 3o	17	16-	9	15-
20	23	22	24	21	23		24 3-	26 3-	24 3-	28 3o	24 3-	20 2+	25 3-	11 2-	23	20+	12	21o
21	8	9	7	11	9	CK*	7 1o	6 1o	8 1+	6 1o	11 2-	10 1+	7 1o	14 2o	9	10+	4	7-
22	9	7	6	11	8	CC	8 1+	7 1o	7 1o	5 1-	6 1o	7 1o	23 3-	6 1o	9	10-	4	8o
23	17	6	7	16	12	CC	7 1o	3 0+	13 2-	14 2o	12 2-	17 2+	13 2-	10 1+	11	12o	6	13-
24	7	10	8	9	9	C	9 1+	7 1o	4 1-	10 1+	11 2-	10 1+	7 1o	10 1+	9	10-	4	8-
25	22	26	23	25	24		19 2+	11 2-	25 3-	56 4o	24 3-	16 2o	21 3-	28 3o	25	21o	12	21-
26	27	25	22	30	26		18 2+	35 3+	28 3o	25 3-	59 4o	14 2o	16 2o	26 3-	28	22o	15	23-
27	5	6	6	5	6	CK*	9 1+	4 1-	2 0+	4 1-	4 1-	2 0+	1 0o	2 0+	4	4+	2	4-
28	28	15	7	36	22		5 1-	7 1o	4 1-	9 1+	9 1+	19 2+	51 4o	33 3o	17	14+	7	12o
29	39	27	15	51	33		9 1+	15 2o	22 3-	23 3-	49 4-	37 3+	88 5o	48 4-	36	24+	22	27o
30	13	14	17	10	14	K	16 2o	19 2+	21 3-	8 1+	6 1o	10 1+	6 1o	11 2-	12	13+	6	12+
31	7	10	10	7	9	CC	12 2-	7 1o	7 1o	8 1+	6 1o	7 1o	8 1+	2 0+	7	9-	4	7o

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) DEC 1998



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) DEC 1998-FEB 1999

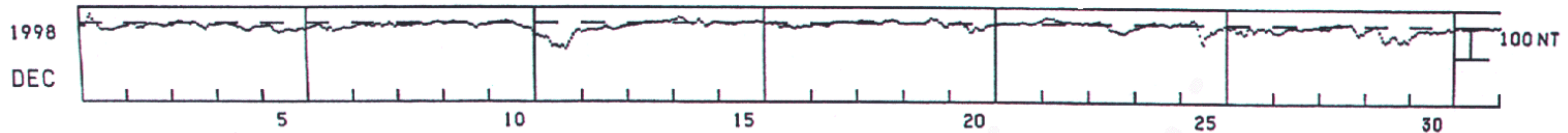


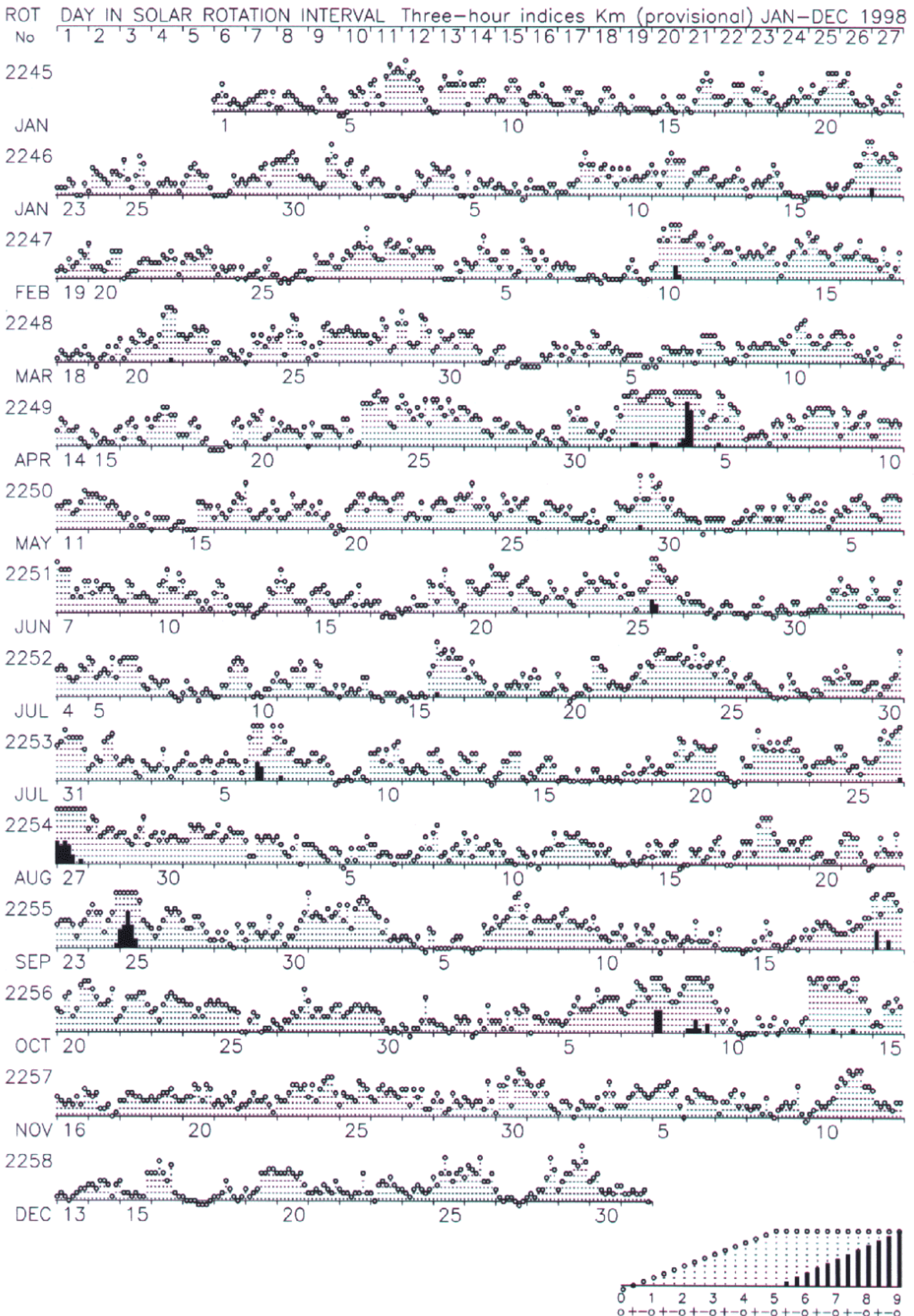
Dst monthly table of hourly indices - December 1998

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

DECEMBER 1998

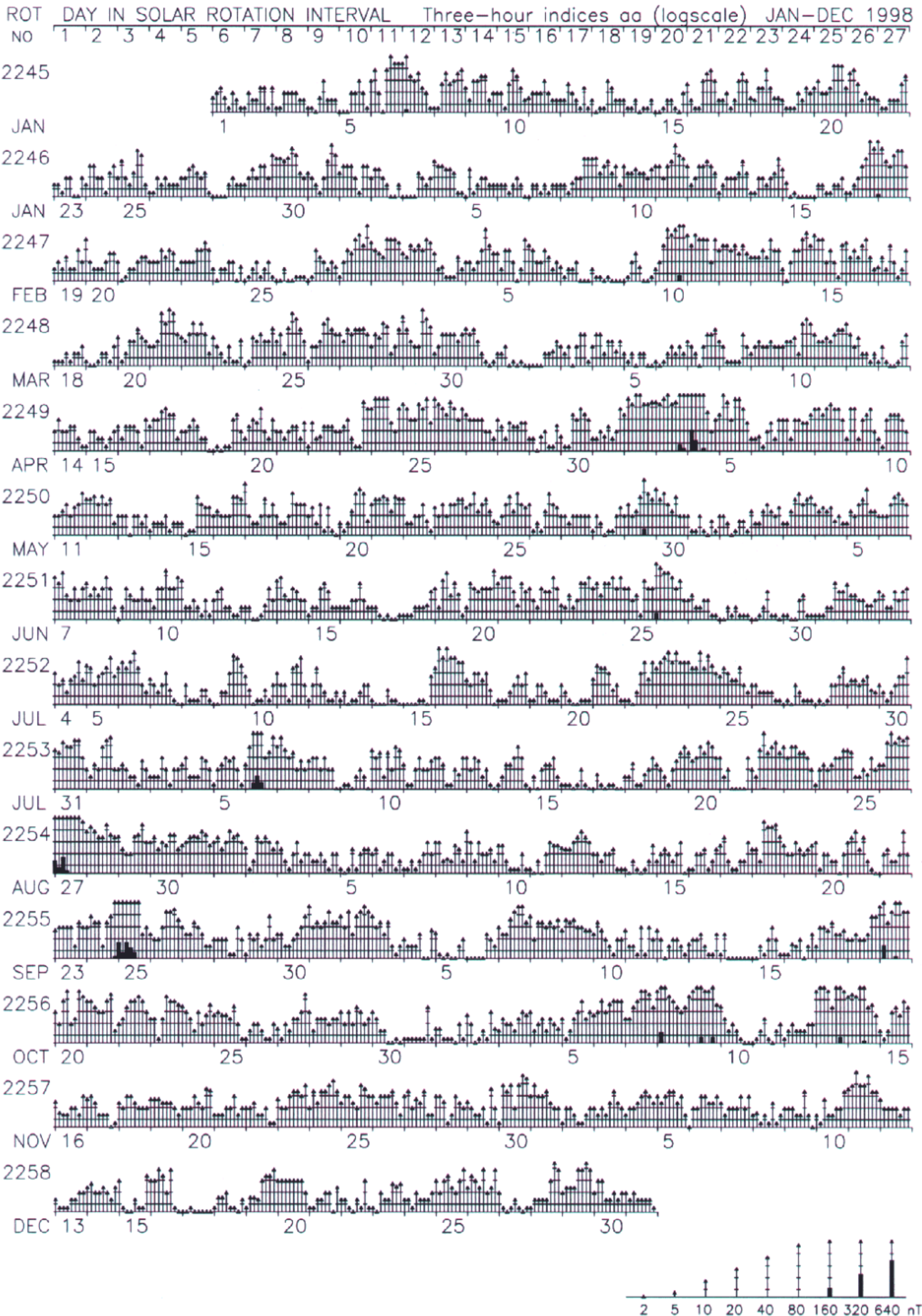
DAY	UNIT=NT																							U.T.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	-9	-9	-9	4	18	28	11	1	0	-8	-17	-21	-20	-19	-19	-22	-23	-22	-19	-18	-15	-14	-13	-11	
2	-10	-8	-4	-2	-3	-6	-15	-15	-13	-15	-11	-7	-3	-2	-3	-3	-3	-4	-7	-9	-10	-10	-8	-6	
3	-8	-7	-2	3	6	5	3	-1	-1	0	-3	1	2	-1	-6	-8	-10	-15	-19	-12	-6	-7	-7	-7	
4	-5	-5	-3	-2	-1	0	-3	-5	-6	-8	-8	-14	-12	-15	-19	-24	-24	-25	-21	-15	-12	-12	-13	-13	
5	-11	-10	-8	-8	-8	-14	-22	-26	-28	-30	-28	-27	-23	-23	-20	-22	-24	-25	-26	-20	-19	-18	-22	-18	
6	-17	-15	-13	-10	-8	-5	-5	-10	-18	-18	-23	-16	-15	-25	-26	-23	-20	-19	-17	-15	-17	-18	-18	-16	
7	-13	-11	-7	-5	-4	-4	-6	-8	-5	-9	-10	-9	-4	-3	-4	-10	-8	-7	-5	1	-3	-5	-13	-9	
8	-6	-8	-8	-8	-8	-6	-8	-8	-4	-3	-3	-3	-2	-5	-7	-6	-3	-3	-1	1	4	4	1	0	
9	-3	-4	-1	2	4	7	4	0	1	1	1	2	0	-4	-6	-7	-13	-16	-9	-6	-4	-5	-5	-3	
10	-3	-2	0	2	3	3	5	5	9	7	5	4	4	-2	-7	-9	-9	-14	-15	-15	-16	-17	-25	-35	
11	-38	-38	-43	-43	-45	-42	-47	-59	-71	-70	-70	-73	-75	-70	-73	-80	-71	-61	-50	-38	-29	-23	-23	-29	
12	-28	-25	-21	-21	-20	-20	-20	-22	-19	-19	-18	-13	-11	-16	-17	-20	-19	-19	-17	-14	-12	-10	-10	-9	
13	-8	-7	-8	-7	-5	-4	-3	0	1	3	3	3	3	2	2	4	4	2	5	7	6	3	8	10	
14	10	12	18	17	16	12	7	3	0	-4	-4	0	8	12	4	0	-9	-9	-6	-2	1	4	3	1	
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22	15	19	19	16	17	16	10	11	9	8	7	6	6	6	6	4	4	5	4	3	0	4	5	5	
23	2	3	6	7	9	8	3	0	-2	-6	-16	-19	-19	-20	-23	-26	-27	-29	-28	-24	-19	-18	-17	-13	
24	-12	-10	-7	-4	-3	-1	2	4	5	8	2	0	1	1	2	0	-2	-5	-5	0	1	0	2	7	
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PLANETARY GEOMAGNETIC ACTIVITY – MUSICAL DIAGRAM OF Km 1998

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PLANETARY GEOMAGNETIC ACTIVITY – MUSICAL DIAGRAM OF aa 1998