



Bureau des Publications SIIG - Bulletin Mensuel n°01 - 12 - Decembre 2001

ISGI Publications Office Monthly Bulletin n°01 - 12 - December 2001

**C O N T E N T S**

<b>Rapid Variations</b>	- provisional determination of ssc and sfe	December 2001
<b>Classification of days</b>	- five international quietest days and most disturbed days	December 2001
<b>aa</b>	- hemispheric N, S, daily values and planetary half day and daily values	December 2001
<b>Quiet periods</b>	- musical diagram of aa (latest values) - truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	Dec. up to Feb. 17th 2002 December 2001
<b>am, Km</b>	- three hour indices values musical diagram of Km	December 2001
<b>Am, ΣKm</b>	- daily values	December 2001
<b>Ap, ΣKp</b>	- daily values	December 2001
<b>Dst</b>	- monthly tables of hourly indices	December 2001
<b>Errata</b>	- monthly tables of hourly indices	November 2001
<b>Musical diagram of km</b>	- annual graph	November 2001
<b>Musical diagram of aa</b>	- annual graph	January to December 2001 January to December 2001

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

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*Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.*

**PRELIMINARY REPORT ON RAPID VARIATIONS**

**DECEMBER 2001**

**SSC - Storm Sudden Commencements**

**SFE - Solar Flare Effects**

23 23 16 B: ETT HER  
C: BDV GCK EBR HTY GUI  
29 05 38 A: VAL\* CLF\* HRB\* NAG\* EBR\*  
HTY GUI\* HYB ETT  
B: NGK\* BDV\* GNA HER\* CNB  
C: NUR GCK  
30 20 09 A: GUI HYB ETT  
B: NGK\* VAL BDV\* NAG\* EBR  
GNA\* HER\* CNB  
C: GCK\* HTY

03 1023-1041 NAG (si: HRB)  
11 0800-0824 BDV+ GNA+ HER CNB+  
13 1424-1454 NGK BDV+ NAG EBR HER (si: HRB)  
26 1226-1236 BDV+  
28 0345-0403 GNA+ CNB+  
30 1543-1600 GUI

REPORTING OBSERVATORIES (up to 6th of February 2002):

SOD NUR NGK VAL BDV CLF HRB NAG GCK EBR HTY GUI HYB ETT GNA HER CNB

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
<b>December 2001</b>	9	10	11	13	20	24	30	17*	31*	21*

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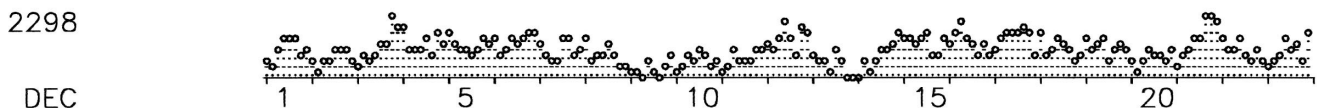
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DECEMBER 2001		Geomagnetic Indices <i>(provisional)</i>													Daily Average and Sum			
	aa					quiet days	am and Km for each three hour interval								and Sum			
	N	S	am	pm	D		1	2	3	4	5	6	7	8	Am	Σ Km	Ap	Σ Kp
1	16	21	17	20	19	K	9 1+	7 1o	14 2o	23 3-	25 3-	22 3-	12 2-	14 2o	16	16o	7	13o
2	10	13	10	13	12	CK	10 1+	5 1-	9 1+	9 1+	14 2o	14 2o	15 2o	9 1+	11	12o	4	10-
3	21	19	11	29	20		6 1o	13 2-	9 1+	13 2-	19 2+	19 2+	51 4o	39 3+	21	18-	8	15o
4	24	19	22	21	22		34 3+	15 2o	14 2o	16 2o	22 3-	13 2-	27 3o	17 2+	20	19o	10	19o
5	22	12	19	15	17		32 3o	18 2+	16 2o	15 2o	12 2-	16 2o	24 3-	18 2+	19	18o	11	19o
6	23	22	21	24	23		21 3-	12 2-	16 2o	25 3-	19 2+	25 3-	32 3o	27 3o	22	20o	11	20+
7	15	15	12	18	15		17 2+	12 2-	8 1+	9 1+	21 3-	24 3-	11 2-	16 2o	15	16-	6	13o
8	11	10	13	9	11	CK	21 3-	8 1+	11 2-	11 2-	19 2+	13 2-	7 1o	6 1o	12	13+	6	12+
9	7	7	7	7	7	CC*	5 1-	5 1-	3 0+	10 1+	4 1-	2 0+	6 1o	12 2-	6	7-	3	5o
10	8	13	7	14	11	CC*	5 1-	6 1o	11 2-	8 1+	16 2o	12 2-	7 1o	9 1+	9	11-	4	7-
11	9	14	7	17	12	C*	5 1-	7 1o	16 2o	8 1+	8 1+	9 1+	15 2o	14 2o	10	12-	4	8+
12	32	28	30	31	30		17 2+	15 2o	21 3-	43 4-	25 3-	12 2-	36 3+	28 3o	25	21+	11	21-
13	7	8	10	5	7	CK*	11 2-	9 1+	9 1+	4 1-	14 2o	8 1+	2 0+	2 0+	7	9o	3	7o
14	10	16	8	18	13	CC	2 0+	8 1+	4 1-	10 1+	14 2o	15 2o	17 2+	29 3o	12	13o	4	9+
15	17	24	17	24	20		21 3-	21 3-	18 2+	24 3-	30 3o	12 2-	13 2-	23 3-	20	19+	9	18-
16	22	34	40	15	28		20 2+	33 3o	42 4-	24 3-	20 2+	13 2-	18 2+	11 2-	23	20-	10	19-
17	33	20	24	30	27		16 2o	25 3-	27 3o	27 3o	28 3o	35 3+	33 3o	12 2-	25	22-	16	24o
18	18	17	21	14	18		29 3o	12 2-	15 2o	25 3-	20 2+	16 2o	10 1+	12 2-	17	17-	9	17+
19	17	16	19	14	17		24 3-	14 2o	17 2+	26 3-	8 1+	14 2o	19 2+	14 2o	17	17+	8	16+
20	9	10	8	11	10	CC*	8 1+	4 1-	9 1+	14 2o	13 2-	13 2-	10 1+	15 2o	11	12o	4	9+
21	29	25	12	41	27		6 1o	12 2-	14 2o	22 3-	23 3-	52 4o	60 4o	46 4-	29	22-	14	21o
22	18	11	19	10	15		25 3-	16 2o	16 2o	24 3-	13 2-	8 1+	16 2o	8 1+	16	16-	8	16o
23	13	19	14	18	16		7 1o	10 1+	12 2-	25 3-	16 2o	17 2+	9 1+	27 3o	15	15+	7	14o
24	44	47	50	41	46		18 2+	26 3-	79 5-	44 4-	49 4-	52 4o	30 3o	20 2+	40	26+	23	29-
25	18	14	14	18	16		16 2o	13 2-	15 2o	19 2+	11 2-	17 2+	13 2-	29 3o	17	17-	9	17o
26	14	10	10	14	12	CK	15 2o	10 1+	7 1o	8 1+	7 1o	14 2o	17 2+	18 2+	12	13+	6	12o
27	17	8	11	14	13	CC	13 2-	7 1o	6 1o	11 2-	12 2-	18 2+	21 3-	12 2-	13	14-	7	14-
28	11	16	11	16	14		4 1-	5 1-	12 2-	15 2o	26 3-	9 1+	9 1+	21 3-	13	13o	4	10-
29	29	53	54	28	41		11 2-	59 4o	25 3-	34 3+	22 3-	26 3-	19 2+	23 3-	27	22o	11	20o
30	43	43	37	49	43		38 3+	51 4o	28 3o	15 2o	19 2+	22 3-	57 4o	91 5o	40	26+	21	27-
31	30	22	20	33	26		38 3+	24 3-	14 2o	9 1+	10 1+	31 3o	59 4o	53 4o	30	22-	15	22o

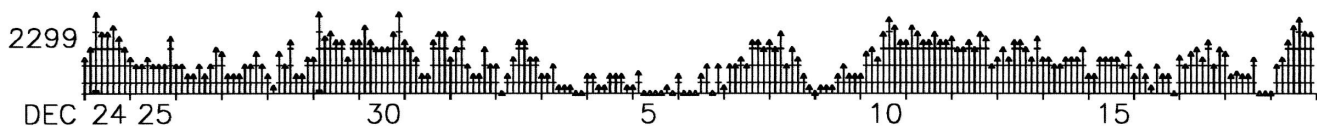
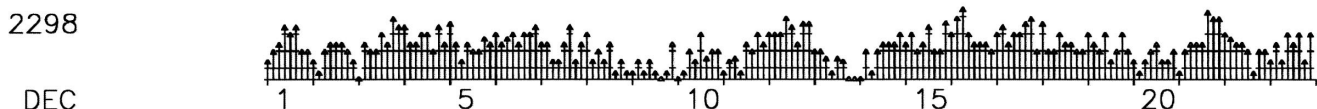
ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) DEC 2001

No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) DEC2001-FEB2002

No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

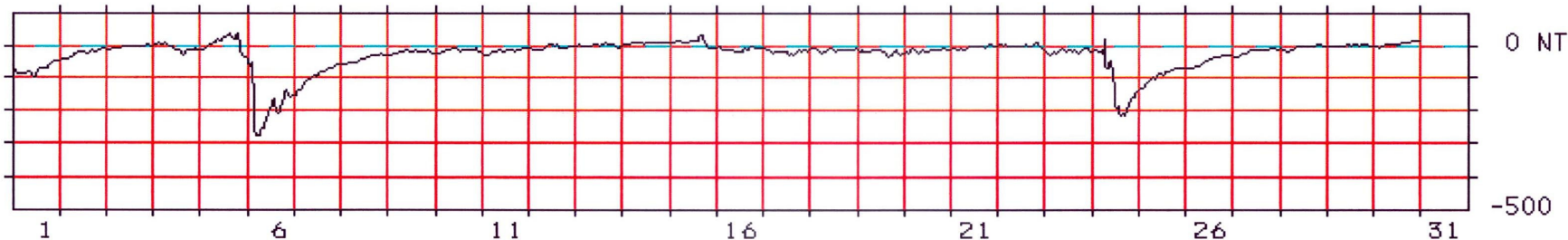


HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - November 2001 -

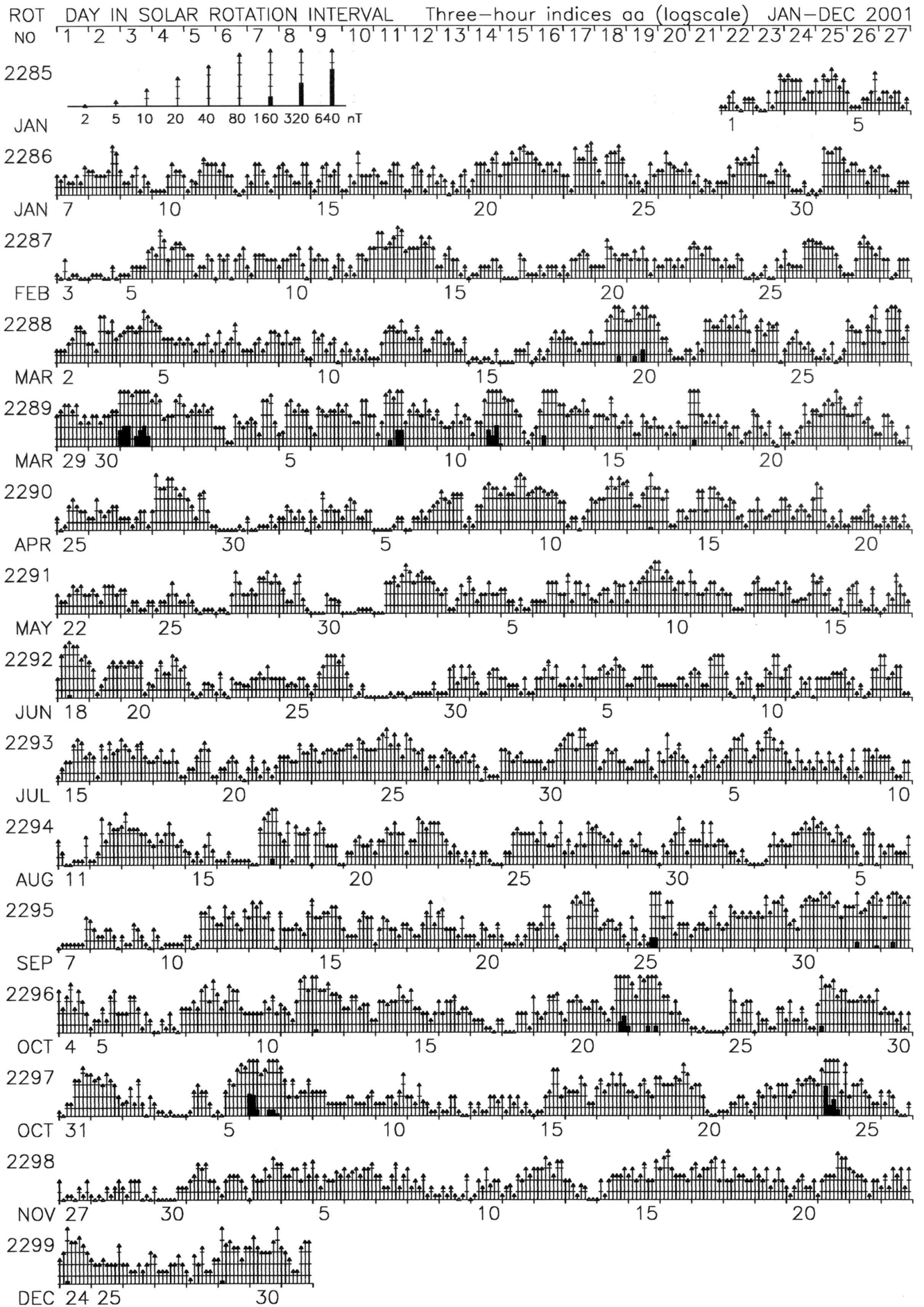
Unit = NT																								U.T.
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-65	-77	-88	-84	-84	-85	-86	-81	-83	-87	-96	-97	-81	-68	-68	-70	-70	-67	-60	-51	-46	-46	-45	-45
2	-43	-40	-43	-39	-37	-36	-28	-27	-23	-20	-20	-20	-21	-26	-24	-17	-15	-17	-18	-14	-13	-11	-11	-12
3	-14	-12	-10	-7	-7	-7	-6	-5	-4	-3	-2	-3	-3	-3	-2	-3	-5	-5	-4	0	2	2	0	0
4	3	5	6	4	4	7	5	0	0	-4	-12	-12	-14	-18	-30	-24	-16	-14	-16	-13	-11	-13	-14	-14
5	-13	-12	-9	0	3	5	7	10	21	15	16	25	24	30	37	25	20	22	34	13	-25	-37	-38	-41
6	-62	-54	-119	-267	-273	-277	-275	-254	-251	-233	-215	-198	-185	-166	-194	-210	-202	-178	-162	-137	-148	-159	-152	-155
7	-150	-138	-134	-130	-120	-106	-103	-102	-96	-92	-93	-95	-91	-82	-80	-82	-77	-72	-68	-67	-62	-60	-60	-59
8	-57	-58	-57	-51	-52	-53	-51	-51	-49	-42	-41	-39	-37	-34	-32	-31	-31	-30	-28	-28	-27	-30	-32	-31
9	-29	-28	-27	-25	-24	-19	-17	-17	-16	-14	-18	-18	-18	-16	-17	-17	-18	-17	-17	-14	-19	-26	-24	-23
10	-23	-25	-23	-19	-18	-16	-12	-13	-10	-9	-11	-15	-17	-13	-14	-15	-14	-13	-14	-13	-10	-19	-22	-24
11	-28	-28	-30	-25	-22	-19	-17	-15	-13	-13	-21	-22	-15	-12	-13	-16	-17	-15	-15	-13	-11	-11	-11	-11
12	-10	-12	-14	-13	-13	-13	-13	-9	-4	1	3	1	0	2	-1	-6	-8	-7	-7	-6	-4	-5	-5	-5
13	-2	1	-1	-2	-5	-3	-2	-2	2	2	1	0	2	5	7	4	3	2	4	-1	-8	-9	-3	0
14	2	2	2	3	6	7	7	9	7	6	5	6	6	7	9	9	11	11	9	8	7	7	9	10
15	11	11	13	15	15	12	10	10	11	11	12	16	13	15	16	29	32	12	5	-10	-10	-8	-11	-6
16	-1	-4	-12	-14	-14	-16	-16	-15	-17	-18	-19	-18	-19	-18	-9	-12	-12	-5	-1	-6	-8	-9	-8	-9
17	-10	-12	-14	-19	-26	-22	-21	-20	-20	-21	-20	-22	-28	-23	-28	-24	-18	-13	-20	-17	-13	-12	-17	-15
18	-10	-10	-10	-13	-17	-24	-22	-20	-16	-10	-11	-13	-19	-15	-12	-14	-16	-14	-12	-13	-14	-12	-11	-16
19	-19	-13	-18	-21	-19	-21	-20	-16	-12	-14	-14	-13	-19	-21	-23	-36	-33	-33	-20	-16	-25	-32	-26	-24
20	-21	-23	-20	-11	-16	-22	-25	-20	-16	-15	-18	-18	-17	-13	-15	-15	-15	-14	-12	-10	-11	-13	-13	-12
21	-10	-11	-12	-12	-11	-13	-14	-9	-3	-1	-3	-3	-4	-5	-2	0	-3	-6	-1	4	4	0	0	0
22	1	1	-1	2	-2	0	-4	-3	-2	-5	-3	-2	-1	1	-2	-1	-2	3	6	8	-1	-9	-16	-16
23	-20	-25	-28	-23	-18	-23	-22	-14	-10	-15	-19	-16	-14	-17	-14	-19	-26	-20	-12	-11	-8	-10	-18	-22
24	-15	-16	-19	-18	-25	-9	20	-67	-68	-49	-71	-115	-190	-185	-212	-209	-213	-202	-187	-170	-161	-157	-141	-137
25	-131	-128	-126	-114	-106	-102	-96	-100	-99	-88	-86	-91	-88	-80	-81	-78	-75	-75	-72	-70	-70	-71	-71	-68
26	-68	-70	-70	-67	-65	-64	-65	-61	-54	-49	-46	-42	-40	-37	-36	-36	-35	-33	-30	-29	-30	-30	-31	-31
27	-35	-38	-35	-30	-27	-23	-23	-18	-12	-13	-13	-14	-14	-13	-13	-13	-13	-12	-10	-9	-10	-12	-14	-10
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30	-3	-5	-7	-3	0	2	2	4	4	3	2	2	5	8	8	7	7	7	10	14	15	15	12	14

DST  
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**PLANETARY GEOMAGNETIC ACTIVITY - MUSICAL DIAGRAM OF aa 2001**



PLANETARY GEOMAGNETIC ACTIVITY - MUSICAL DIAGRAM OF Km 2001

