

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



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ERRATUM :

The month indicated in the header of the last bulletin was wrong. One should read 06-09 June 2009 and not 05-09 May 2009.

C O N T E N T S

Rapid Variations	- provisional determination of ssc and sfe	July 2009
Classification of days	- five international quietest days and most disturbed days	July 2009
aa	- hemispheric N, S, daily values and planetary half day and daily values	July 2009
Quiet periods	- musical diagram of aa (latest values)	July up to 20 September 2009
	- truly magnetically very quiet (C) and quiet (K) periods of 24 and 48 hours, and 5 international quietest days (*)	July 2009
am, Km	- three hour indices values musical diagram of Km	July 2009
Am, ΣKm	- daily values	July 2009
Ap, ΣKp	- daily values	July 2009
	- monthly tables of hourly indices	July 2009

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

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.

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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

JULY 2009

SSC - Storm Sudden Commencements

SFE - Solar Flare Effects

13 13 22 B: LER* ESK* VAL HAD* GUI
 C: NGK* BDV* SPT

04 1501-1520 GUI

REPORTING OBSERVATORIES (up to 04/09/2009) :

LER ESK NGK VAL HAD BDV NAG GCK MMB EBR SPT KAK KNY GUI HYB GNA CNB

FIVE INTERNATIONAL QUIETEST DAYS

FIVE INTERNATIONAL MOST DISTURBED DAYS

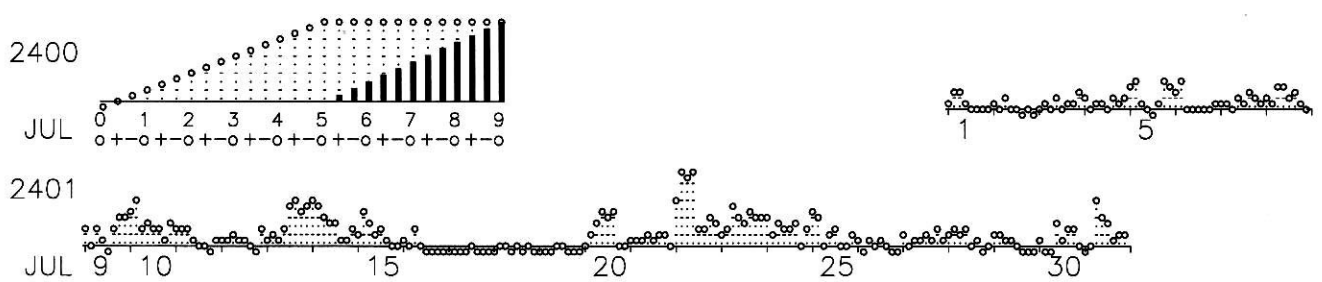
July 2009

17 19 18 2 26

22 14* 13* 23* 10*

JULY 2009		Geomagnetic Indices (provisional)												Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km Ap Σ Kp			
	N	S	am	pm			1	2	3	4	5	6	7	8	Am	Σ Km	Ap	Σ Kp
1	6	4	6	4	5	CC	5 1-	10 1+	8 1+	4 1-	2 0+	3 0+	2 0+	2 0+	5	5+	3	5o
2	6	3	5	4	5	CC*	5 1-	3 0+	6 1o	3 0+	2 0+	1 0o	2 0+	1 0o	3	3o	2	3o
3	8	5	5	8	7	CC	2 0+	4 1-	2 0+	6 1o	3 0+	4 1-	4 1-	9 1+	4	5+	3	6-
4	7	5	4	8	6	CC	7 1o	3 0+	5 1-	4 1-	3 0+	6 1o	4 1-	6 1o	5	6-	3	6-
5	12	6	9	9	9	CC	13 2-	16 2o	5 1-	2 0+	1 0o	5 1-	14 2o	12 2-	9	9o	5	10-
6	8	4	7	5	6	CC	9 1+	14 2o	3 0+	2 0+	2 0+	3 0+	3 0+	5 1-	5	6-	3	6+
7	11	6	6	11	9	CC	4 1-	5 1-	3 0+	7 1o	4 1-	8 1+	6 1o	4 1-	5	6+	4	7o
8	7	7	6	8	7	CC	6 1o	4 1-	13 2-	11 2-	7 1o	8 1+	4 1-	3 0+	7	8+	4	8-
9	14	6	7	14	10	CK	8 1+	3 0+	10 1+	5 1-	1 0o	8 1+	15 2o	15 2o	8	9o	6	11+
10	17	11	18	10	14	K	17 2+	28 3o	8 1+	11 2-	10 1+	10 1+	5 1-	13 2-	13	13+	7	13+
11	7	5	8	4	6	CC	8 1+	10 1+	8 1+	4 1-	3 0+	2 0+	1 0o	5 1-	5	6o	3	6+
12	6	5	7	4	5	CC	5 1-	5 1-	7 1o	5 1-	4 1-	2 0+	1 0o	8 1+	5	5+	3	6-
13	23	14	7	30	18		5 1-	6 1o	4 1-	9 1+	21 3-	27 3o	17 2+	26 3-	14	14+	8	14o
14	16	12	15	13	14		29 3o	21 3-	14 2o	12 2-	13 2-	5 1-	4 1-	8 1+	13	14-	8	14o
15	9	7	7	9	8	CC	7 1o	17 2+	11 2-	6 1o	9 1+	4 1-	2 0+	2 0+	7	9-	4	8-
16	5	2	4	3	4	CC	4 1-	3 0+	8 1+	3 0+	1 0o	0 0o	0 0o	1 0o	3	3-	2	3+
17	2	2	2	2	2	CC*	1 0o	1 0o	0 0o	0 0o	2 0+	1 0o	1 0o	1 0o	1	0+	1	1o
18	6	2	4	4	4	CC*	0 0o	2 0+	3 0+	1 0o	3 0+	1 0o	2 0+	0 0o	2	1+	2	2+
19	4	2	3	3	3	CC*	0 0o	1 0o	1 0o	3 0+	2 0+	1 0o	1 0o	1 0o	1	1-	1	1+
20	10	12	10	13	11	KC	2 0+	7 1o	12 2-	20 2+	14 2o	17 2+	2 0+	2 0+	10	10+	4	9+
21	9	6	7	9	8	C	4 1-	5 1-	5 1-	6 1o	4 1-	7 1o	7 1o	3 0+	5	6o	4	7o
22	41	37	65	13	39		30 3o	83 5-	69 4+	71 5-	8 1+	10 1+	15 2o	12 2-	37	23o	24	25o
23	14	12	10	16	13	CC	6 1o	9 1+	21 3-	14 2o	12 2-	19 2+	16 2o	15 2o	14	15o	7	15-
24	11	8	9	10	10	CC	14 2o	6 1o	11 2-	10 1+	9 1+	11 2-	2 0+	8 1+	9	11-	5	11+
25	9	6	9	7	8	CC	17 2+	16 2o	2 0+	7 1o	8 1+	3 0+	2 0+	6 1o	8	9-	4	9-
26	6	4	6	4	5	CC*	4 1-	1 0o	5 1-	3 0+	5 1-	2 0+	1 0o	0 0o	3	3-	2	3+
27	7	7	5	9	7	CC	7 1o	2 0+	4 1-	4 1-	6 1o	5 1-	10 1+	5 1-	5	6+	3	5+
28	7	6	8	5	6	CC	7 1o	8 1+	6 1o	8 1+	2 0+	4 1-	1 0o	3 0+	5	6o	3	7-
29	6	3	5	4	4	CC	7 1o	6 1o	4 1-	5 1-	2 0+	1 0o	1 0o	1 0o	3	4-	2	4-
30	10	7	6	11	8	CC	4 1-	1 0o	1 0o	12 2-	5 1-	10 1+	8 1+	3 0+	6	6o	3	6+
31	8	11	9	10	9	CC	1 0o	3 0+	28 3o	14 2o	11 2-	5 1-	6 1o	7 1o	9	10-	4	8+

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) JUL 2009



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JUL-SEP 2009

