

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



Bureau des Publications SIIG - Bulletin Mensuel n°10-11 - Novembre 2010  
 ISGI Publications Office - Monthly Bulletin n°10-11 - November 2010

**CONTENTS**

|                               |   |  |
|-------------------------------|---|--|
| <b>Rapid Variations</b>       | - provisional determination of SSC and SFE  | November 2010                              |
| <b>Classification of days</b> | - five international quietest days<br>and most disturbed days   | November 2010                              |
| <b>aa</b>                     | - hemispheric N, S, daily values<br>and planetary half day and daily values   | November 2010                              |
|                               | - musical diagram of aa (latest values)   | Nov. 2010 up to Jan. 16 <sup>th</sup> 2011 |
| <b>Quiet periods</b>          | - truly magnetically very quiet (C) and quiet (K)<br>periods of 24 and 48 hours,<br>and 5 international quietest days (*) | November 2010                              |
| <b>am, Km</b>                 | - three hour indices values<br>musical diagram of Km  | November 2010                              |
| <b>Am, ΣKm</b>                | - daily values  | November 2010                              |
| <b>Ap, ΣKp</b>                | - daily values  | November 2010                              |
|                               | - monthly tables of hourly indices  | November 2010                              |

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 LATMOS, 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 LATMOS and of French Organisations of Scientific Research (CNRS, INSU, BCMT).*

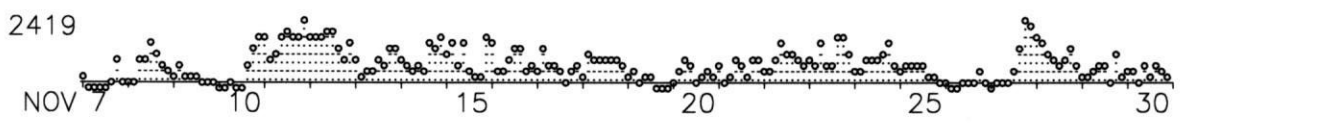
*Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.*

| PRELIMINARY REPORT ON RAPID VARIATIONS       |  | NOVEMBER 2010             |
|--|--|---------------------------|
| SSC - Storm Sudden Commencements             |  | SFE - Solar Flare Effects |
| 08 07 52                                     | A: SPT GNA<br>B: GUI CNB<br>C: NGK BDV EBR | 05 1316-1334 GUI          |
| 10 17 43                                     | A: NGK GNA<br>B: CNB<br>C: BDV GCK GUI     |                           |
| REPORTING OBSERVATORIES (up to 04-01-2011) : |  |                           |
| NUR NGK DOU BDV HRB GCK EBR SPT GUI GNA CNB  |  |                           |

|                      | FIVE INTERNATIONAL QUIETEST DAYS |    |    |   |   | FIVE INTERNATIONAL MOST DISTURBED DAYS |     |     |     |     |
|----------------------|----------------------------------|----|----|---|---|--|-----|-----|-----|-----|
| <b>November 2010</b> | 6                                | 26 | 19 | 2 | 7 | 11*                                    | 12* | 23* | 28* | 15* |

| NOVEMBER 2010 Geomagnetic Indices (provisional) |    |    |    |    |            |  |       |       |       |       |       |       |       | 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   | 6  | 14 | 11 | 9  | 10         | CC                                     | 3 0+  | 5 1-  | 10 1+ | 9 1+  | 14 2o | 3 0+  | 5 1-  | 8 1+                  | 7  | 8o   | 3  | 6-   |
| 2   | 6  | 6  | 7  | 5  | 6          | CC*                                    | 2 0+  | 2 0+  | 6 1o  | 10 1+ | 6 1o  | 4 1-  | 1 0o  | 4 1-                  | 4  | 5+   | 3  | 4+   |
| 3   | 10 | 9  | 10 | 9  | 10         | CC                                     | 8 1+  | 6 1o  | 8 1+  | 9 1+  | 10 1+ | 7 1o  | 13 2- | 5 1-                  | 8  | 10-  | 5  | 10-  |
| 4   | 7  | 6  | 6  | 7  | 6          | CC                                     | 10 1+ | 4 1-  | 1 0o  | 12 2- | 10 1+ | 8 1+  | 0 0o  | 5 1-                  | 6  | 7o   | 3  | 6+   |
| 5   | 5  | 5  | 4  | 6  | 5          | CC                                     | 1 0o  | 1 0o  | 5 1-  | 7 1o  | 8 1+  | 12 2- | 5 1-  | 0 0o                  | 5  | 5+   | 2  | 5-   |
| 6   | 4  | 6  | 4  | 6  | 5          | CC*                                    | 1 0o  | 2 0+  | 2 0+  | 4 1-  | 6 1o  | 6 1o  | 2 0+  | 5 1-                  | 4  | 4+   | 1  | 2o   |
| 7   | 5  | 5  | 3  | 7  | 5          | CC*                                    | 4 1-  | 1 0o  | 1 0o  | 0 0o  | 1 0o  | 3 0+  | 12 2- | 3 0+                  | 3  | 3o   | 2  | 3+   |
| 8   | 9  | 13 | 7  | 15 | 11         | CC                                     | 2 0+  | 2 0+  | 11 2- | 11 2- | 24 3- | 14 2o | 10 1+ | 6 1o                  | 10 | 11o  | 4  | 8-   |
| 9   | 4  | 5  | 5  | 4  | 4          | CC                                     | 4 1-  | 10 1+ | 4 1-  | 4 1-  | 5 1-  | 2 0+  | 3 0+  | 2 0+                  | 4  | 5o   | 2  | 4o   |
| 10  | 9  | 8  | 2  | 14 | 8          | KK                                     | 1 0o  | 0 0o  | 3 0+  | 1 0o  | 0 0o  | 9 1+  | 18 2+ | 28 3o                 | 8  | 7o   | 4  | 6+   |
| 11  | 38 | 29 | 24 | 44 | 34         |  | 29 3o | 11 2- | 14 2o | 33 3o | 37 3+ | 31 3o | 29 3o | 52 4o                 | 30 | 23o  | 17 | 24o  |
| 12  | 36 | 20 | 35 | 21 | 28         |  | 33 3o | 27 3o | 30 3o | 35 3+ | 40 3+ | 19 2+ | 11 2- | 24 3-                 | 27 | 22+  | 16 | 24+  |
| 13  | 17 | 9  | 10 | 16 | 13         | C                                      | 11 2- | 5 1-  | 7 1o  | 7 1o  | 12 2- | 9 1+  | 18 2+ | 17 2+                 | 11 | 12o  | 7  | 13+  |
| 14  | 17 | 13 | 8  | 22 | 15         |  | 11 2- | 10 1+ | 6 1o  | 9 1+  | 7 1o  | 26 3- | 19 2+ | 28 3o                 | 15 | 14+  | 8  | 14+  |
| 15  | 19 | 20 | 22 | 18 | 20         |  | 15 2o | 25 3- | 9 1+  | 22 3- | 7 1o  | 4 1-  | 4 1-  | 32 3o                 | 15 | 14o  | 9  | 15+  |
| 16  | 14 | 17 | 15 | 16 | 16         |  | 22 3- | 7 1o  | 7 1o  | 12 2- | 17 2+ | 17 2+ | 7 1o  | 8 1+                  | 12 | 13+  | 7  | 14-  |
| 17  | 10 | 8  | 11 | 8  | 9          | CC                                     | 6 1o  | 17 2+ | 9 1+  | 8 1+  | 7 1o  | 2 0+  | 7 1o  | 9 1+                  | 8  | 10-  | 5  | 9o   |
| 18  | 13 | 12 | 12 | 13 | 13         | CC                                     | 4 1-  | 14 2o | 12 2- | 12 2- | 13 2- | 11 2- | 13 2- | 8 1+                  | 11 | 12+  | 6  | 12-  |
| 19  | 5  | 5  | 6  | 4  | 5          | CC*                                    | 5 1-  | 7 1o  | 2 0+  | 5 1-  | 5 1-  | 1 0o  | 0 0o  | 0 0o                  | 3  | 3+   | 2  | 4o   |
| 20  | 6  | 12 | 12 | 6  | 9          | CC                                     | 2 0+  | 7 1o  | 12 2- | 8 1+  | 2 0+  | 4 1-  | 7 1o  | 4 1-                  | 6  | 7o   | 3  | 5-   |
| 21  | 9  | 12 | 9  | 12 | 11         | CC                                     | 8 1+  | 3 0+  | 4 1-  | 13 2- | 10 1+ | 5 1-  | 13 2- | 12 2-                 | 9  | 9+   | 4  | 8o   |
| 22  | 12 | 15 | 12 | 15 | 14         | C                                      | 7 1o  | 6 1o  | 11 2- | 22 3- | 14 2o | 15 2o | 13 2- | 9 1+                  | 12 | 13+  | 6  | 12+  |
| 23  | 21 | 19 | 17 | 23 | 20         |  | 12 2- | 8 1+  | 23 3- | 10 1+ | 10 1+ | 28 3o | 29 3o | 14 2o                 | 17 | 16+  | 10 | 18-  |
| 24  | 12 | 17 | 11 | 18 | 15         |  | 6 1o  | 7 1o  | 11 2- | 11 2- | 12 2- | 15 2o | 24 3- | 10 1+                 | 12 | 13o  | 6  | 13-  |
| 25  | 7  | 8  | 10 | 5  | 8          | CC                                     | 6 1o  | 9 1+  | 8 1+  | 9 1+  | 8 1+  | 4 1-  | 5 1-  | 3 0+                  | 7  | 8o   | 4  | 7o   |
| 26  | 6  | 3  | 4  | 5  | 4          | CC*                                    | 2 0+  | 1 0o  | 1 0o  | 2 0+  | 3 0+  | 2 0+  | 7 1o  | 2 0+                  | 3  | 3-   | 1  | 2o   |
| 27  | 29 | 14 | 4  | 40 | 22         |  | 0 0o  | 2 0+  | 3 0+  | 3 0+  | 7 1o  | 17 2+ | 59 4o | 42 4-                 | 17 | 12o  | 11 | 12o  |
| 28  | 20 | 20 | 24 | 16 | 20         |  | 27 3o | 24 3- | 16 2o | 11 2- | 10 1+ | 13 2- | 19 2+ | 10 1+                 | 16 | 16o  | 9  | 17-  |
| 29  | 9  | 8  | 6  | 11 | 8          | CC                                     | 4 1-  | 4 1-  | 7 1o  | 8 1+  | 10 1+ | 3 0+  | 16 2o | 4 1-                  | 7  | 8o   | 4  | 7+   |
| 30  | 8  | 7  | 7  | 7  | 7          | CC                                     | 6 1o  | 6 1o  | 3 0+  | 8 1+  | 5 1-  | 8 1+  | 7 1o  | 4 1-                  | 6  | 7+   | 4  | 7o   |

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km (provisional) NOV 2010



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV 2010 - JAN 2011

