

SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES  
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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| <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 2013                                             |
| <b>am, Km</b>                 | - three hour indices values<br>musical diagram of Km                                                                      | November 2013                                             |
| <b>Am, ΣKm</b>                | - daily values                                                                                                            | November 2013                                             |
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|                               | - monthly tables of hourly indices                                                                                        | November 2013                                             |

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

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## PRELIMINARY REPORT ON RAPID VARIATIONS

NOVEMBER 2013

## SSC - Storm Sudden Commencements

None

## SFE - Solar Flare Effects

02 0443-0500 MMB KAK KNY  
03 0520-0545 MMB KAK KNY GNG CNB  
05 2210-2227 MMB KAK KNY GNG CNB LIV  
06 1342-1403 LER ESK HAD BDV EBR  
07 0337-0350 MMB KAK  
08 0422-0445 MMB KAK KNY GNG CNB  
10 0510-0529 MMB KAK KNY GNG CNB  
19 1015-1058 WNG NGK BDV EBR  
19 1021-1115 ESK HAD SPT LIV

REPORTING OBSERVATORIES (up to the 8th of January 2014):

SOD NUR LER ESK WNG NGK VAL HAD DOU BDV HRB NAG GCK MMB EBR SPT KAK KNY GUI GNG CNB LIV

|                      | FIVE INTERNATIONAL QUIETEST DAYS |    |    |    |    | FIVE INTERNATIONAL MOST DISTURBED DAYS |   |     |     |    |
|----------------------|----------------------------------|----|----|----|----|----------------------------------------|---|-----|-----|----|
| <b>November 2013</b> | 25                               | 24 | 21 | 27 | 28 | 11                                     | 9 | 10* | 16* | 7* |

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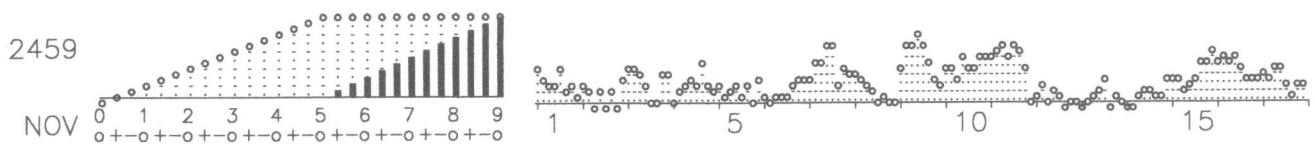
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| NOVEMBER 2013 |    |    |    |    |    | Geomagnetic Indices (provisional) |                                        |       |       |       |       |       |       |       |         | Daily Average and Sum |    |      |  |
|---------------|----|----|----|----|----|-----------------------------------|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|-----------------------|----|------|--|
|               | 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             | 10 | 12 | 12 | 10 | 11 | CC                                | 18 2+                                  | 12 2- | 8 1+  | 10 1+ | 17 2+ | 6 1o  | 8 1+  | 4 1-  | 10      | 12o                   | 5  | 10o  |  |
| 2             | 8  | 8  | 8  | 9  | 8  | CC                                | 8 1+                                   | 7 1o  | 1 0o  | 7 1o  | 1 0o  | 6 1o  | 1 0o  | 13 2- | 6       | 6o                    | 3  | 6o   |  |
| 3             | 16 | 14 | 18 | 12 | 15 | C                                 | 17 2+                                  | 17 2+ | 16 2o | 9 1+  | 3 0+  | 2 0+  | 16 2o | 14 2o | 12      | 13-                   | 7  | 13+  |  |
| 4             | 11 | 13 | 10 | 15 | 12 | CC                                | 2 0+                                   | 7 1o  | 8 1+  | 13 2- | 10 1+ | 23 3- | 10 1+ | 7 1o  | 10      | 11-                   | 5  | 10+  |  |
| 5             | 8  | 11 | 10 | 10 | 10 | CC                                | 8 1+                                   | 5 1-  | 7 1o  | 10 1+ | 4 1-  | 8 1+  | 2 0+  | 12 2- | 7       | 8+                    | 4  | 7+   |  |
| 6             | 8  | 6  | 5  | 9  | 7  | C                                 | 4 1-                                   | 2 0+  | 5 1-  | 5 1-  | 5 1-  | 10 1+ | 12 2- | 13 2- | 7       | 8-                    | 4  | 7+   |  |
| 7             | 26 | 28 | 33 | 22 | 27 | C                                 | 11 2-                                  | 24 3- | 25 3- | 47 4- | 45 4- | 8 1+  | 17 2+ | 15 2o | 24      | 20o                   | 12 | 20-  |  |
| 8             | 10 | 9  | 14 | 4  | 9  |                                   | 16 2o                                  | 11 2- | 10 1+ | 7 1o  | 3 0+  | 4 1-  | 2 0+  | 3 0+  | 7       | 8-                    | 4  | 7+   |  |
| 9             | 35 | 33 | 47 | 21 | 34 |                                   | 17 2+                                  | 44 4- | 47 4- | 65 4+ | 50 4- | 24 3- | 12 2- | 8 1+  | 33      | 23+                   | 22 | 26+  |  |
| 10            | 24 | 22 | 21 | 25 | 23 |                                   | 17 2+                                  | 19 2+ | 12 2- | 28 3o | 17 2+ | 18 2+ | 28 3o | 29 3o | 21      | 20o                   | 12 | 21+  |  |
| 11            | 47 | 30 | 49 | 28 | 38 |                                   | 33 3o                                  | 34 3+ | 41 4- | 29 3o | 43 4- | 36 3+ | 17 2+ | 2 0+  | 29      | 23-                   | 22 | 27-  |  |
| 12            | 4  | 5  | 6  | 2  | 4  | CK                                | 5 1-                                   | 8 1+  | 3 0+  | 6 1o  | 4 1-  | 1 0o  | 3 0+  | 2 0+  | 4       | 5-                    | 2  | 3o   |  |
| 13            | 5  | 5  | 4  | 6  | 5  | CC                                | 1 0o                                   | 3 0+  | 5 1-  | 7 1o  | 13 2- | 1 0o  | 4 1-  | 2 0+  | 5       | 5-                    | 2  | 4+   |  |
| 14            | 6  | 5  | 4  | 7  | 5  | CC                                | 0 0o                                   | 1 0o  | 5 1-  | 6 1o  | 7 1o  | 5 1-  | 4 1-  | 11 2- | 5       | 6-                    | 2  | 3+   |  |
| 15            | 20 | 14 | 11 | 23 | 17 |                                   | 11 2-                                  | 11 2- | 7 1o  | 10 1+ | 13 2- | 23 3- | 22 3- | 36 3+ | 17      | 16o                   | 10 | 16+  |  |
| 16            | 23 | 20 | 26 | 17 | 22 |                                   | 23 3-                                  | 30 3o | 26 3- | 29 3o | 20 2+ | 13 2- | 11 2- | 12 2- | 21      | 19-                   | 12 | 20+  |  |
| 17            | 12 | 15 | 15 | 11 | 13 | CC                                | 15 2o                                  | 11 2- | 17 2+ | 19 2+ | 9 1+  | 4 1-  | 10 1+ | 10 1+ | 12      | 13o                   | 6  | 12+  |  |
| 18            | 4  | 5  | 6  | 3  | 4  | CC                                | 9 1+                                   | 2 0+  | 3 0+  | 4 1-  | 3 0+  | 4 1-  | 2 0+  | 3 0+  | 4       | 4+                    | 2  | 3-   |  |
| 19            | 9  | 8  | 4  | 13 | 9  | CC                                | 4 1-                                   | 2 0+  | 2 0+  | 5 1-  | 8 1+  | 9 1+  | 14 2o | 8 1+  | 7       | 8o                    | 3  | 6o   |  |
| 20            | 8  | 11 | 10 | 8  | 9  | CC                                | 7 1o                                   | 11 2- | 10 1+ | 9 1+  | 19 2+ | 2 0+  | 4 1-  | 1 0o  | 8       | 9-                    | 4  | 7+   |  |
| 21            | 4  | 3  | 2  | 5  | 4  | CC*                               | 2 0+                                   | 1 0o  | 1 0o  | 2 0+  | 4 1-  | 3 0+  | 4 1-  | 4 1-  | 3       | 3o                    | 1  | 1o   |  |
| 22            | 5  | 6  | 4  | 7  | 5  | CK                                | 4 1-                                   | 1 0o  | 0 0o  | 3 0+  | 1 0o  | 2 0+  | 9 1+  | 8 1+  | 4       | 4o                    | 1  | 3-   |  |
| 23            | 15 | 28 | 31 | 12 | 21 | K                                 | 7 1o                                   | 16 2o | 28 3o | 27 3o | 21 3- | 10 1+ | 12 2- | 3 0+  | 16      | 15o                   | 8  | 14-  |  |
| 24            | 2  | 4  | 3  | 3  | 3  | CC*                               | 3 0+                                   | 2 0+  | 2 0+  | 4 1-  | 2 0+  | 0 0o  | 2 0+  | 3 0+  | 2       | 3-                    | 0  | 0+   |  |
| 25            | 2  | 2  | 2  | 2  | 2  | CC*                               | 1 0o                                   | 2 0+  | 1 0o  | 0 0o  | 0 0o  | 1 0o  | 2 0+  | 1 0o  | 1       | 1-                    | 0  | 0o   |  |
| 26            | 4  | 6  | 2  | 7  | 4  | CC                                | 1 0o                                   | 1 0o  | 1 0o  | 3 0+  | 0 0o  | 4 1-  | 6 1o  | 6 1o  | 3       | 3o                    | 1  | 2-   |  |
| 27            | 4  | 8  | 5  | 7  | 6  | CC*                               | 4 1-                                   | 3 0+  | 4 1-  | 3 0+  | 6 1o  | 10 1+ | 2 0+  | 2 0+  | 4       | 5o                    | 1  | 1o   |  |
| 28            | 4  | 5  | 3  | 5  | 4  | CC*                               | 1 0o                                   | 2 0+  | 1 0o  | 2 0+  | 6 1o  | 5 1-  | 4 1-  | 3 0+  | 3       | 3+                    | 1  | 1+   |  |
| 29            | 18 | 25 | 18 | 25 | 22 |                                   | 5 1-                                   | 16 2o | 13 2- | 16 2o | 12 2- | 26 3- | 36 3+ | 11 2- | 17      | 16-                   | 7  | 14+  |  |
| 30            | 24 | 16 | 12 | 28 | 20 |                                   | 8 1+                                   | 6 1o  | 11 2- | 22 3- | 16 2o | 17 2+ | 26 3- | 40 3+ | 18      | 17o                   | 9  | 16o  |  |

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) NOV 2013



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) NOV2013-FEB2014

