
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

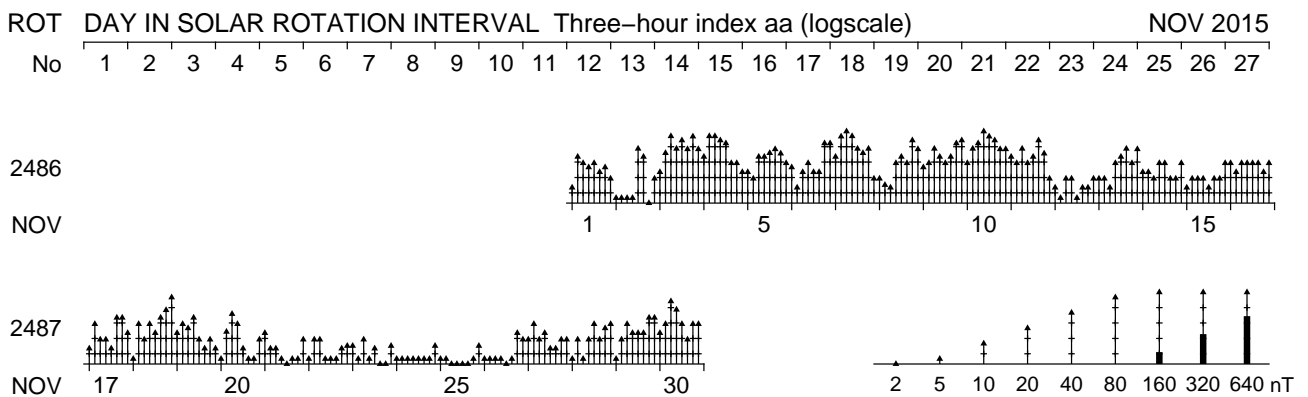
ISGI Collaborating Institute:

Ecole et Observatoire des Sciences de la Terre

5, rue René Descartes

67084 Strasbourg Cedex - FRANCE

Contact: A. Chambodut <isgi@unistra.fr>



1.2 *am*

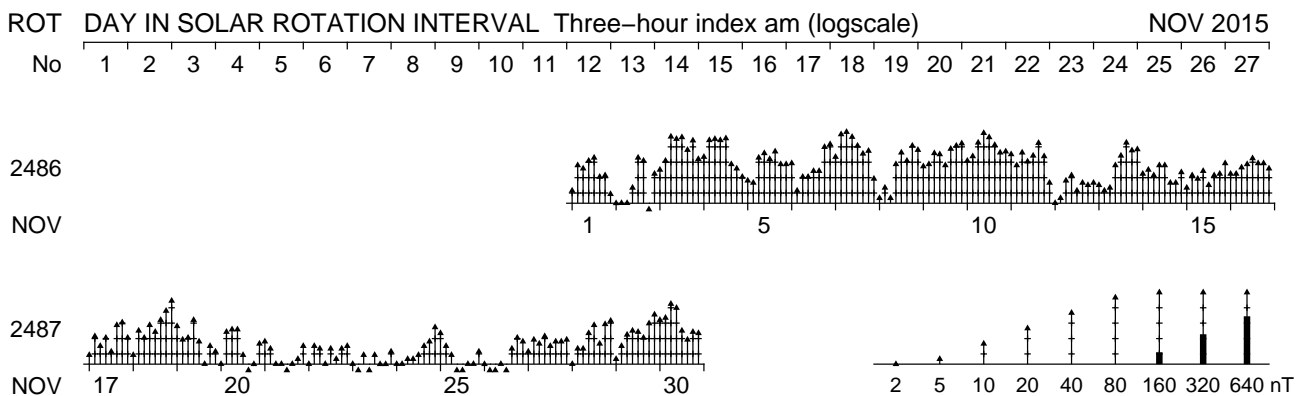
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5, rue René Descartes

67084 Strasbourg Cedex - FRANCE

Contact: A. Chambodut <isgi@unistra.fr>



1.3 K_p

ISGI Collaborating Institute:

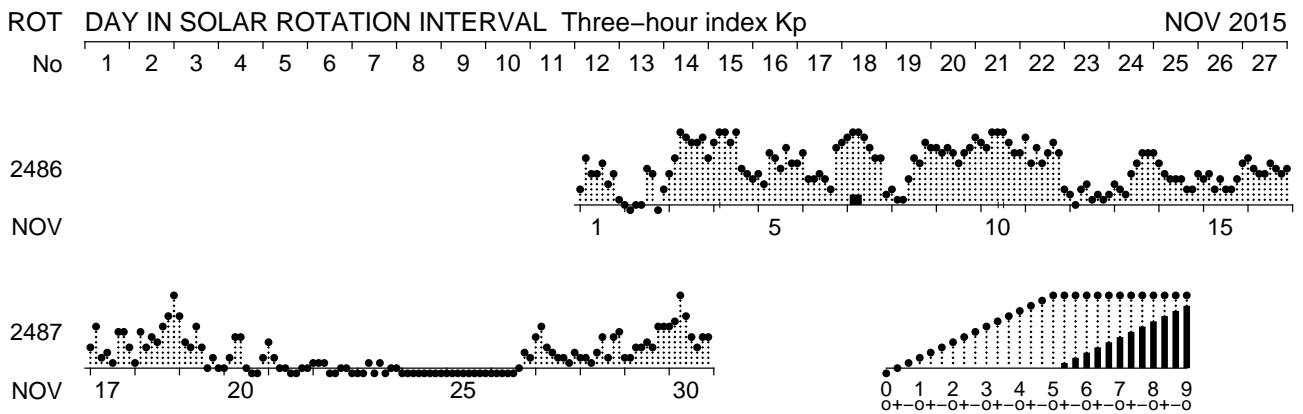
Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum

Adolf-Schmidt-Observatorium

Lindenstr. 7

14823 Niemegk - GERMANY

Contact: J. Matzka <kp_index@gfz-potsdam.de>



1.4 *Dst*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

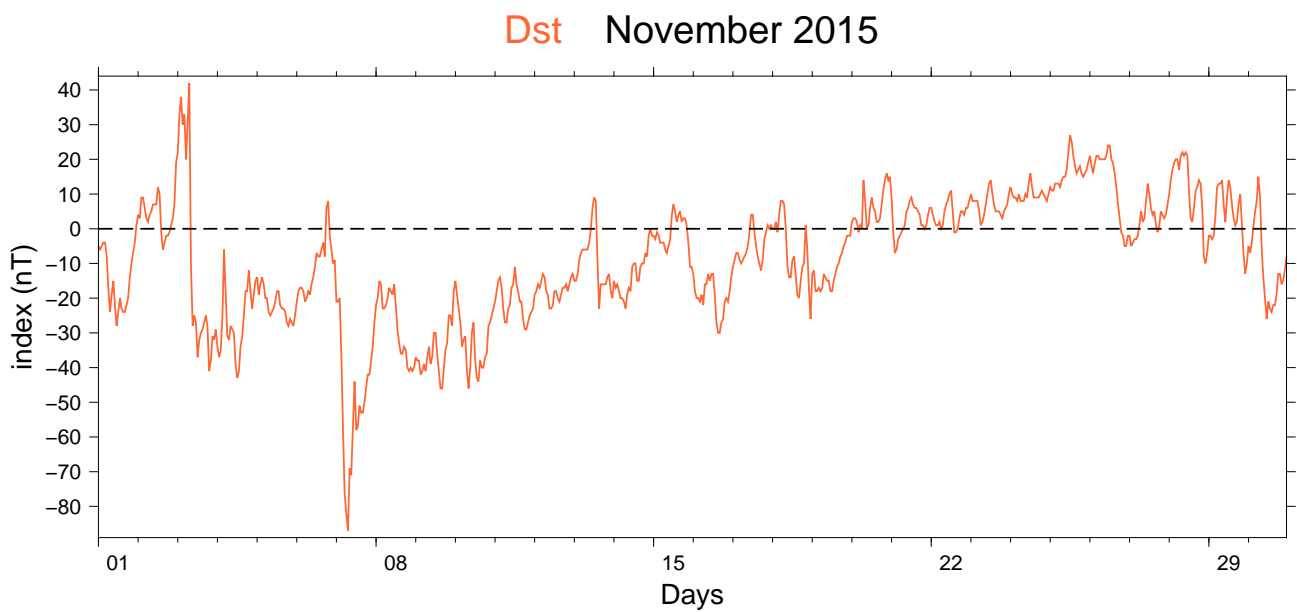
Data Analysis Center for Geomagnetism and Space Magnetism

Graduate School of Science, Kyoto University

Kitashirakawa-Oiwake Cho, Sakyo-ku

Kyoto 606-8502 - JAPAN

Contact: M. Nosé <nose@kugi.kyoto-u.ac.jp>



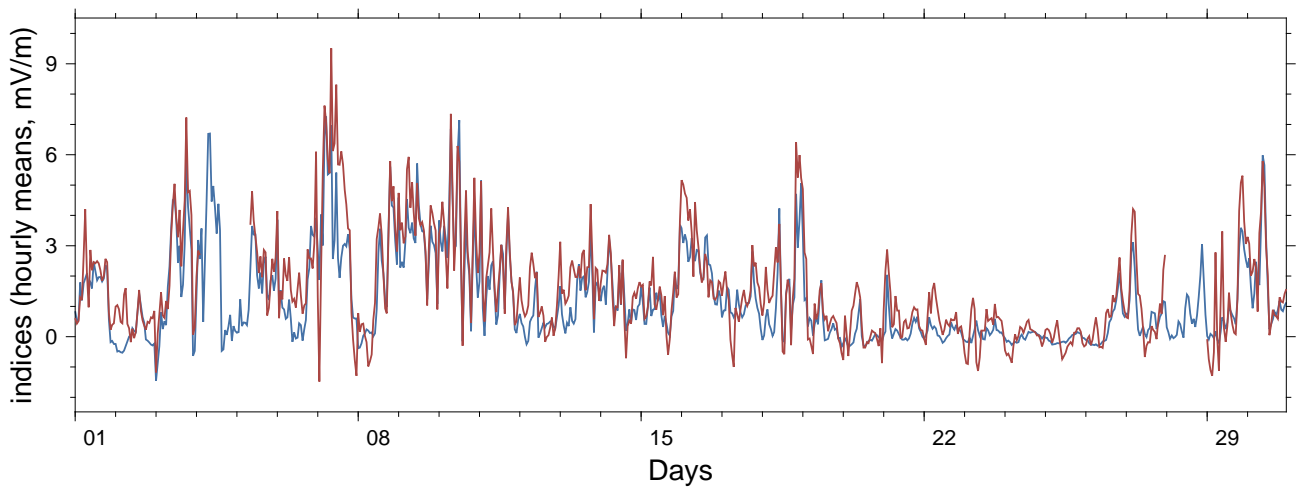
1.5 PC

ISGI Collaborating Institutes:

*Arctic and Antarctic Research Institute
Department of geophysics, 38 Bering str.
St.Petersburg, 199397 - RUSSIAN FEDERATION
Contact: O. Troshichev <olegtr@aari.nw.ru>
and A. Janzhura <alex.j@aari.nw.ru>*

*World Data Center for Geomagnetism, Copenhagen
DTU Space, National Space Institute
Elektrovej, building 327
DK-2800 Kgs. Lyngby - DENMARK
N. Olsen <nio@space.dtu.dk>*

PCN and PCS November 2015



1.6 *AE*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

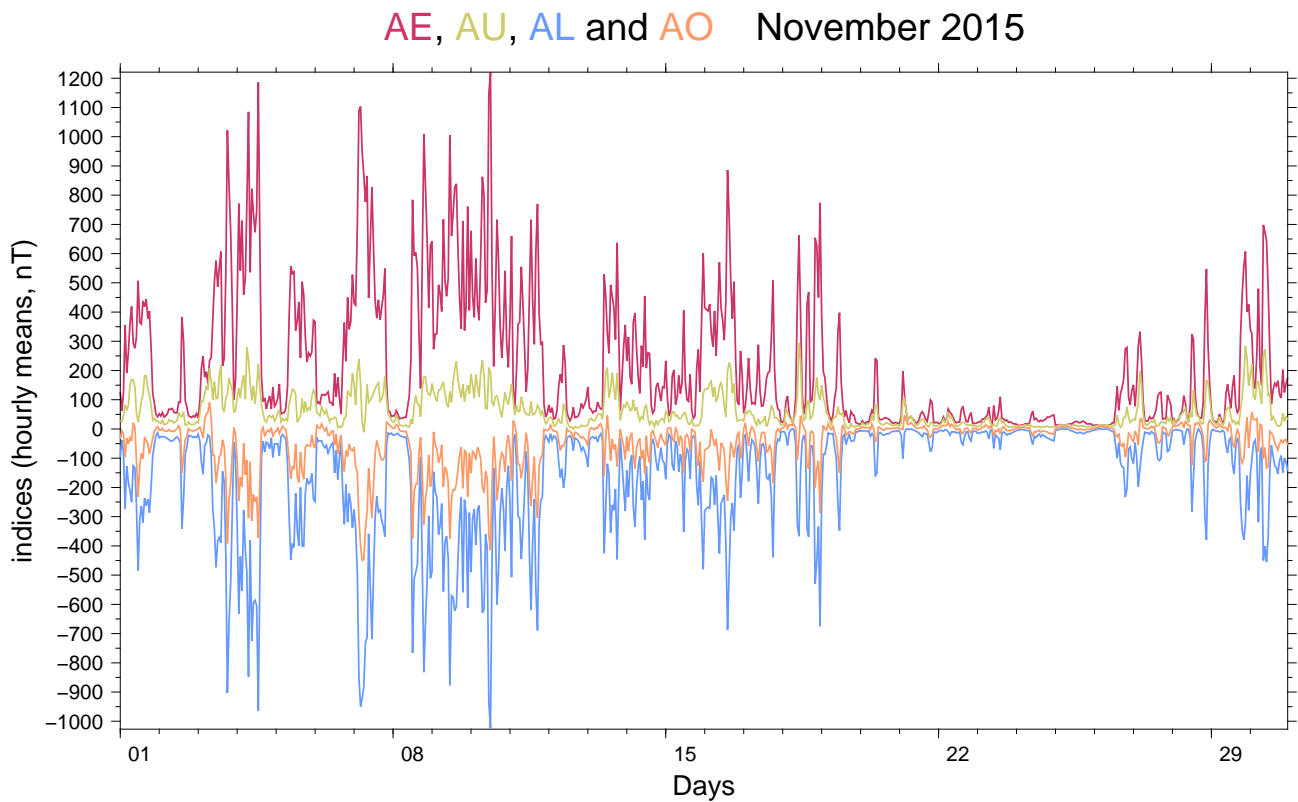
Data Analysis Center for Geomagnetism and Space Magnetism

Graduate School of Science, Kyoto University

Kitashirakawa-Oiwake Cho, Sakyo-ku

Kyoto 606-8502 - JAPAN

Contact : M. Nosé <nose@kugi.kyoto-u.ac.jp>



2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

ISGI Collaborating Institute:

Observatori de l'Ebre

Horta Alta, 38

43520 Roquetes - SPAIN

Contact : J. J. Curto <jjcurto@obsebre.es>

SSC:

2015 11 03 01 34 A: WNG NGK VAL
B: HRB MMB* KAK* KNY* GUI
C: SOD* BDV GCK EBR GNG CNB*

2015 11 06 18 18 A: LER* ESK* WNG* NGK* HAD* NAG MMB* GUI HYB GNG CNB
B: NUR BDV* HRB EBR SPT* KAK KNY
C: VAL* GCK

SFE:

NONE

2.2 Classification of days

ISGI Collaborating Institutes:

Ecole et Observatoire des Sciences de la Terre
 5, rue René Descartes
 67084 Strasbourg Cedex - FRANCE
 Contact: A. Chambodut <isgi@unistra.fr>

*Helmholtz-Zentrum Potsdam Deutsches Geo-
 Forschungszentrum*
Adolf-Schmidt-Observatorium
 Lindenstr. 7
 14823 Niemegk - GERMANY
 Contact : H.-J. Linthe and J. Matzka
 <kp_index@gfz-potsdam.de>

Date	Aa	CK24	CK48	Ap	Q/D
2015-11-01	20	-	-	9	
2015-11-02	14	-	-	4	Q9
2015-11-03	52	-	-	29	D3
2015-11-04	48	-	-	30	D4
2015-11-05	30	-	-	16	
2015-11-06	27	-	-	14	
2015-11-07	55	-	-	38	D2
2015-11-08	28	-	-	14	
2015-11-09	38	-	-	25	D5
2015-11-10	59	-	-	37	D1
2015-11-11	34	-	-	22	
2015-11-12	9	C	-	4	Q7
2015-11-13	25	-	-	13	
2015-11-14	18	-	-	8	
2015-11-15	13	-	-	8	
2015-11-16	22	-	-	12	
2015-11-17	18	-	-	8	
2015-11-18	30	-	-	15	
2015-11-19	17	-	-	8	
2015-11-20	14	-	K	4	Q8
2015-11-21	8	C	C	2	Q6
2015-11-22	8	C	C	2	Q4
2015-11-23	7	C	C	1	Q3
2015-11-24	6	C	C	0	Q1
2015-11-25	4	C	C	0	Q2
2015-11-26	7	C	C	1	Q5
2015-11-27	13	-	C	6	
2015-11-28	14	-	-	6	Q10
2015-11-29	19	-	-	8	
2015-11-30	30	-	-	17	

2.2.1 Truly magnetically very quiet (C) and quiet (K) periods (from aa)

The values for the CK24 define quietest days over 24-hours with:

$$\overline{(aa)} = Aa < 13 \text{ nT} \begin{cases} \text{“K” indicates a quiet K-day with } \sum(p) \geq 4 \\ \text{“C” indicates a really quiet C-day with } \sum(p) < 4 \end{cases}$$

The values for the CK48 define quietest days over 48-hours with:

$$\overline{(aa)} < 13 \text{ nT} \begin{cases} \text{“K” indicates a quiet K-day with } \sum(p) \geq 6 \\ \text{“C” indicates a really quiet C-day with } \sum(p) < 6 \end{cases}$$

where p is a weight assigned at each aa value.

2.2.2 10 international quietest days (Q1-10) and 5 most disturbed days (D1-5)

The values for Q -Days, $Q1 - Q10$, are the order number of the ten quietest days of the month.

A selected quiet day is considered not really quiet and is:

- marked by the letter “A” if ($Ap > 6 \text{ nT}$);
- marked by the letter “K” if ($Ap \leq 6 \text{ nT}$), or if one ($Kp > 3$), or two ($Kp > 2+$).

The values for D -Days, $D1 - D5$, are the order number of the five most disturbed days of the month. A selected disturbed day is considered not really disturbed and marked by “*” if ($Ap < 20 \text{ nT}$).