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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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## MONTHLY BULLETIN MARCH 2016

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# 1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

## 1.1 *aa*

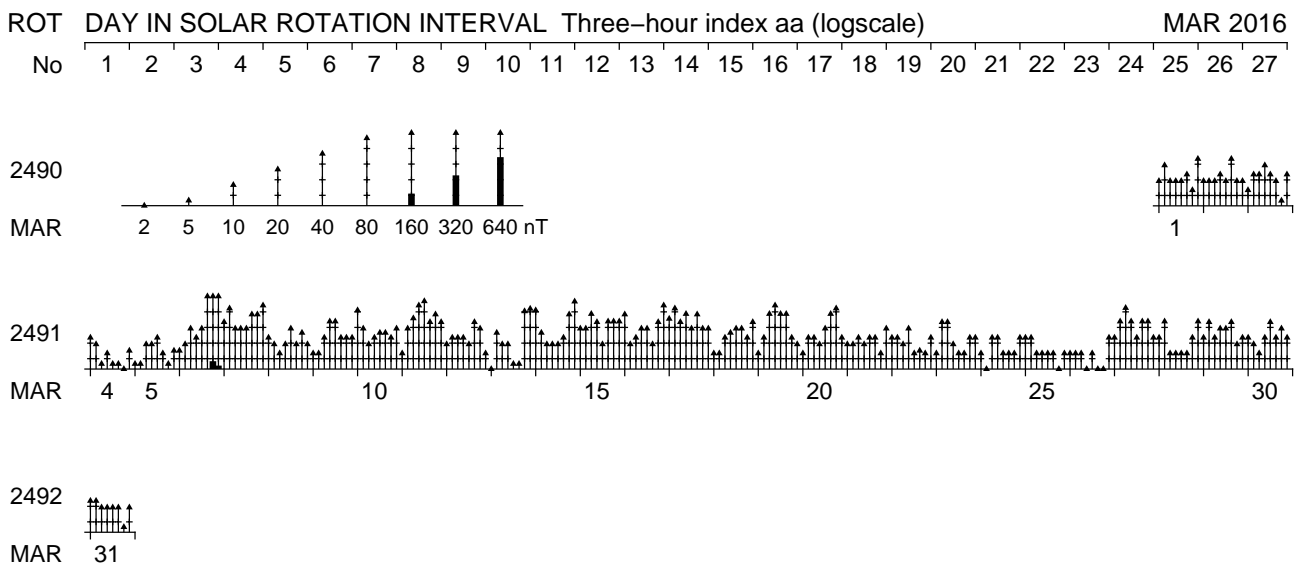
### ISGI Collaborating Institute:

*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*

### ISGI Collaborating Institute:

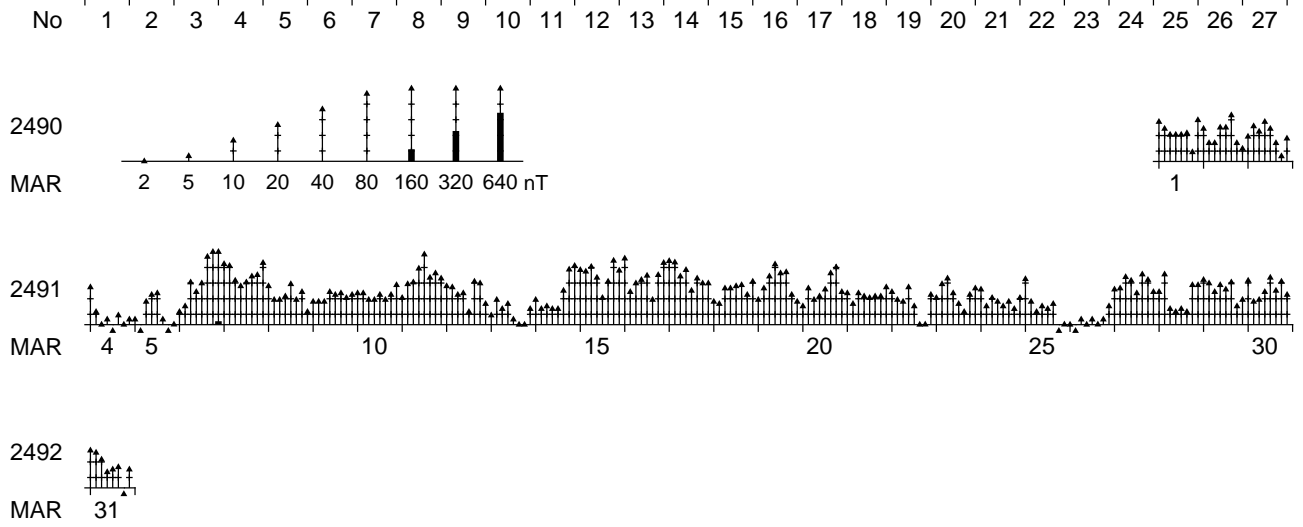
*Ecole et Observatoire des Sciences de la Terre*

*5, rue René Descartes*

*67084 Strasbourg Cedex - FRANCE*

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

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour index am (logscale) MAR 2016



### 1.3 $K_p$

#### ISGI Collaborating Institute:

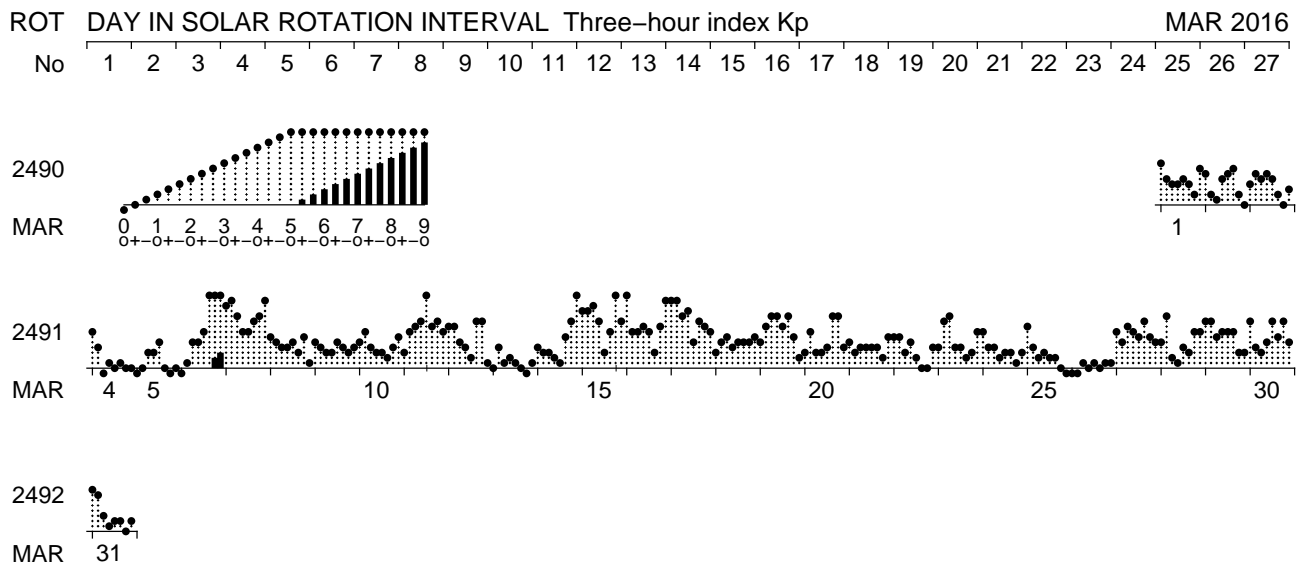
*Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum*

*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*

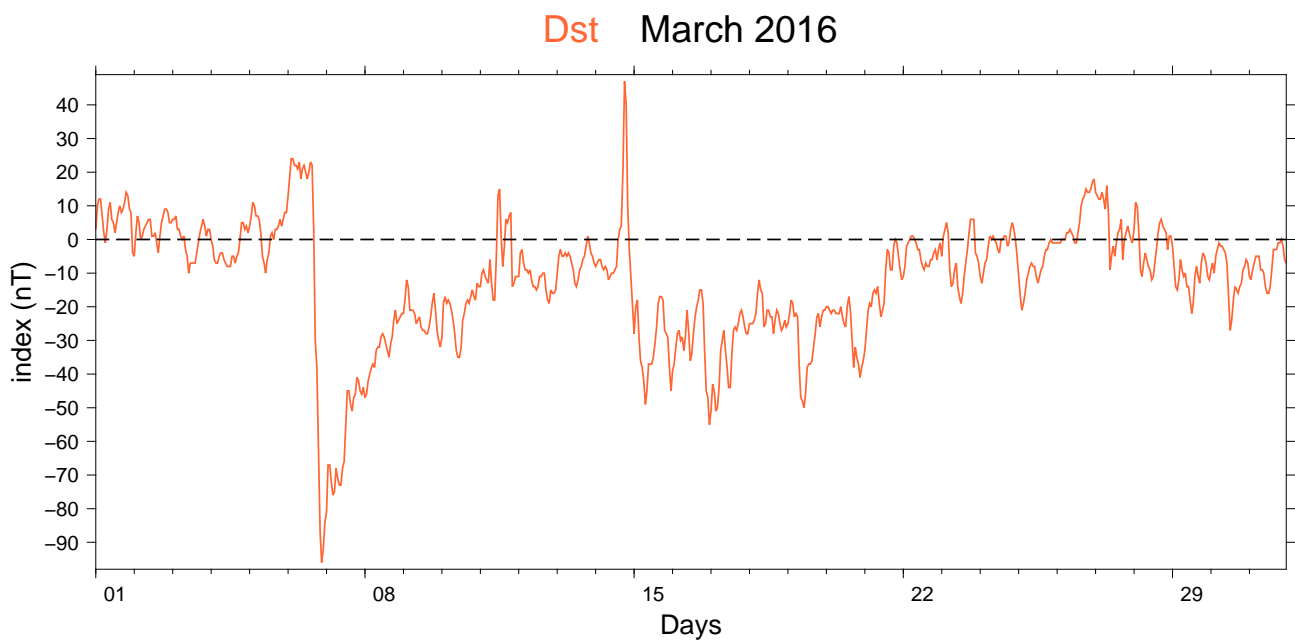
*Data Analysis Center for Geomagnetism and Space Magnetism*

*Graduate School of Science, Kyoto University*

*Kitashirakawa-Oiwake Cho, Sakyo-ku*

*Kyoto 606-8502 - JAPAN*

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

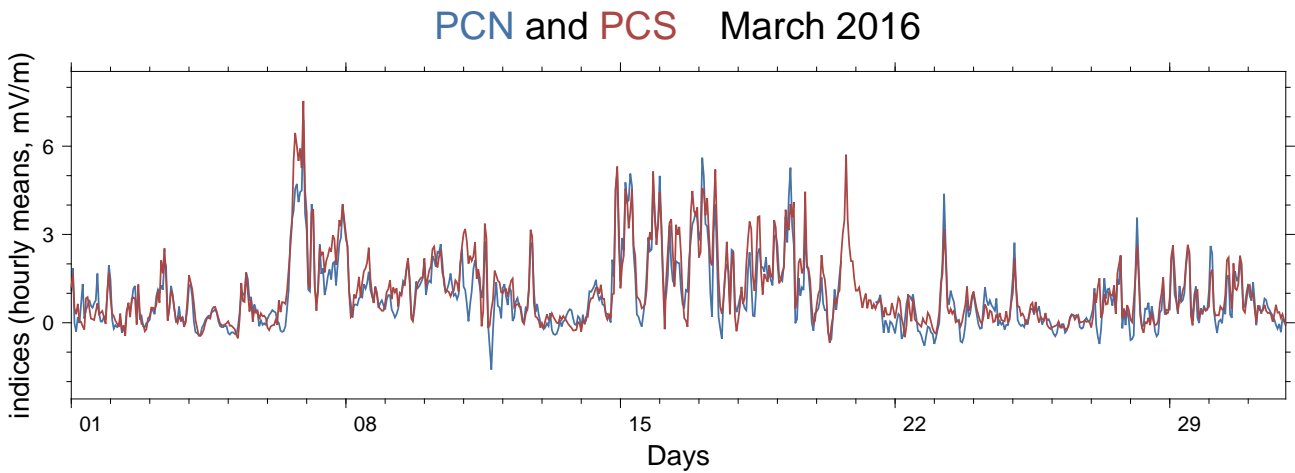


## 1.5 PC

### 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>*



## 1.6 *AE*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

*Data Analysis Center for Geomagnetism and Space Magnetism*

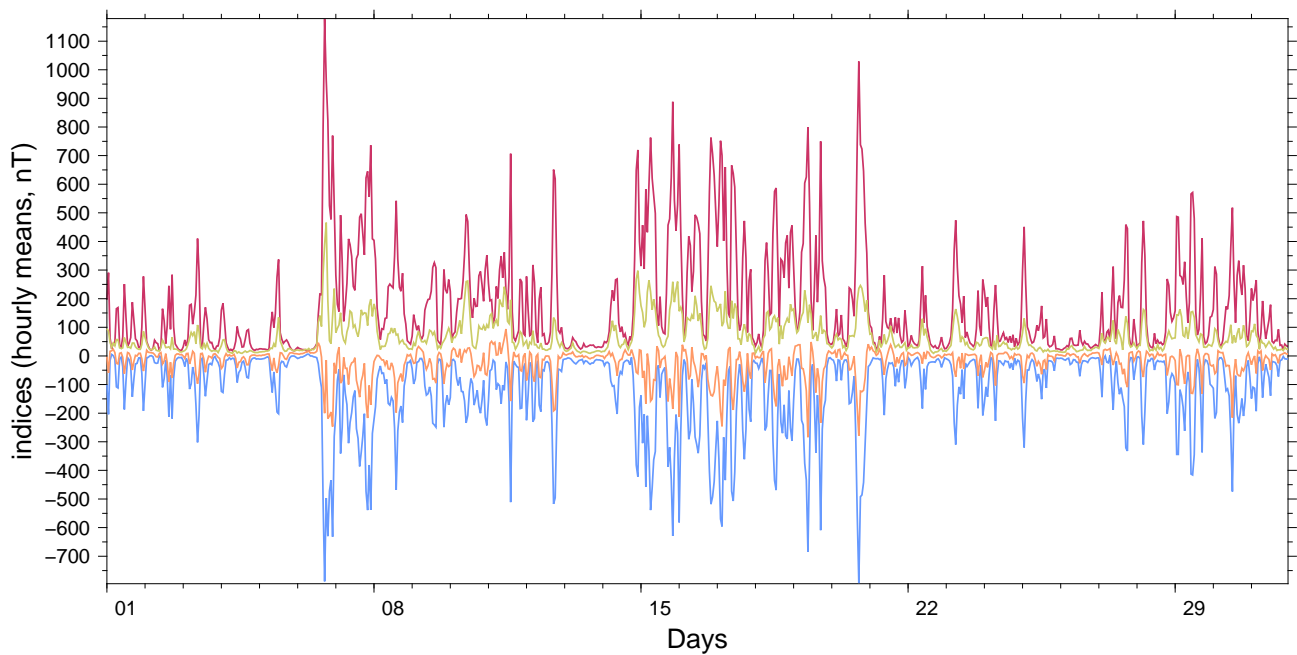
*Graduate School of Science, Kyoto University*

*Kitashirakawa-Oiwake Cho, Sakyo-ku*

*Kyoto 606-8502 - JAPAN*

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

### AE, AU, AL and AO March 2016



## 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:

2016 03 13 11 44 B: NUR WNG NGK BDV  
C: HRB

2016 03 14 17 14 A: SOD NUR GUI GNG  
B: LER\* ESK\* WNG NGK HAD\* BDV\* HRB MMB KNY CNB  
C: VAL NAG GCK EBR SPT\* KAK HYB LIV

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
2016-03-01	16	-	-	8	
2016-03-02	15	-	-	6	
2016-03-03	14	-	-	6	Q10
2016-03-04	8	C	C	4	Q4
2016-03-05	9	C	C	3	Q3
2016-03-06	55	-	-	31	D1
2016-03-07	40	-	-	24	D3
2016-03-08	15	-	-	6	
2016-03-09	18	-	-	6	Q9
2016-03-10	23	-	-	7	
2016-03-11	41	-	-	19	
2016-03-12	17	-	-	11	
2016-03-13	21	-	-	3	Q2
2016-03-14	31	-	-	12	
2016-03-15	30	-	-	24	D2
2016-03-16	29	-	-	20	D5
2016-03-17	36	-	-	22	D4
2016-03-18	19	-	-	7	
2016-03-19	32	-	-	14	
2016-03-20	25	-	-	10	
2016-03-21	15	-	-	6	
2016-03-22	14	-	-	6	Q6
2016-03-23	17	-	-	10	
2016-03-24	10	C	C	6	Q7
2016-03-25	9	C	C	5	Q5K
2016-03-26	7	C	-	2	Q1
2016-03-27	30	-	-	11	
2016-03-28	16	-	-	9	
2016-03-29	22	-	-	11	
2016-03-30	18	-	-	11	
2016-03-31	12	C	-	6	Q8K

### 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 ( $Ap < 20 \text{ nT}$ ).