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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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## MONTHLY BULLETIN JANUARY 2016

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

## 1.1 *aa*

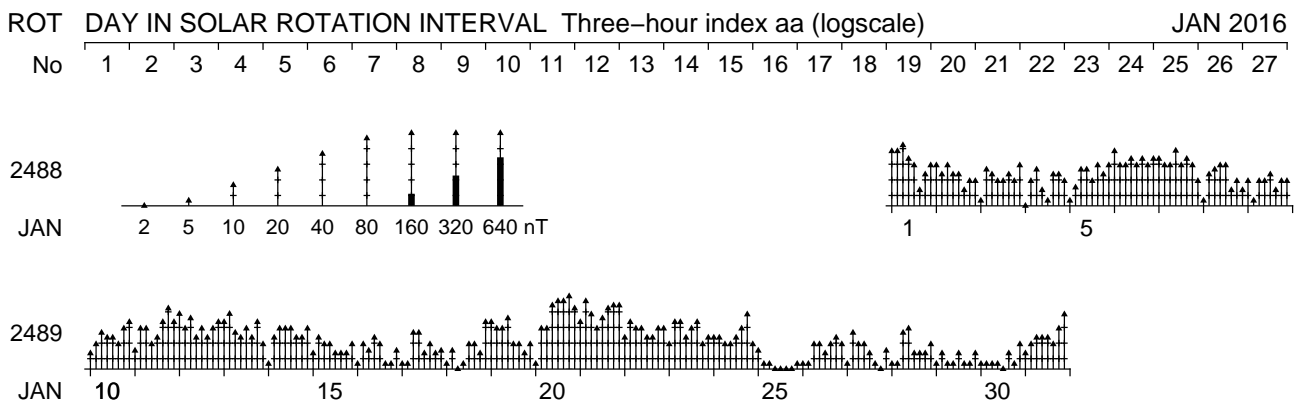
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## 1.2 *am*

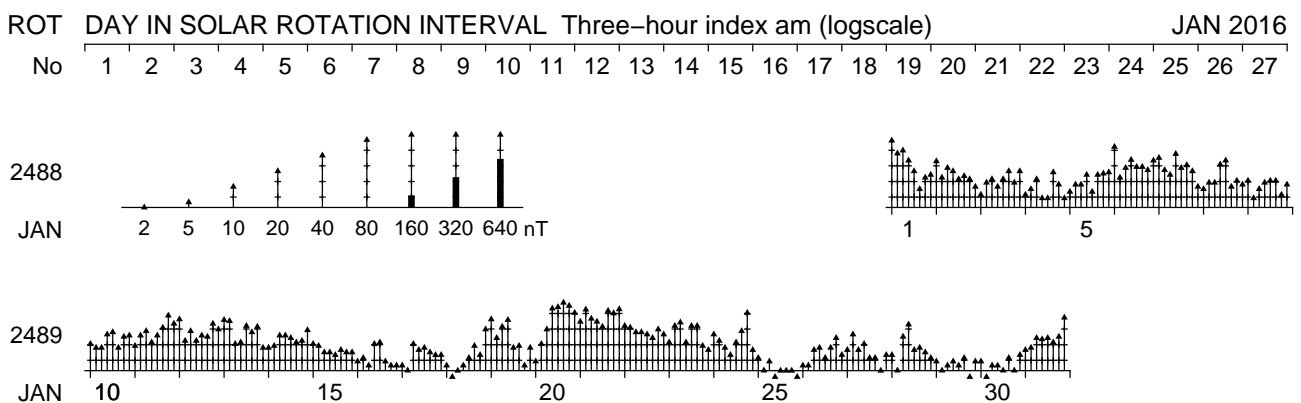
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### 1.3 $K_p$

#### ISGI Collaborating Institute:

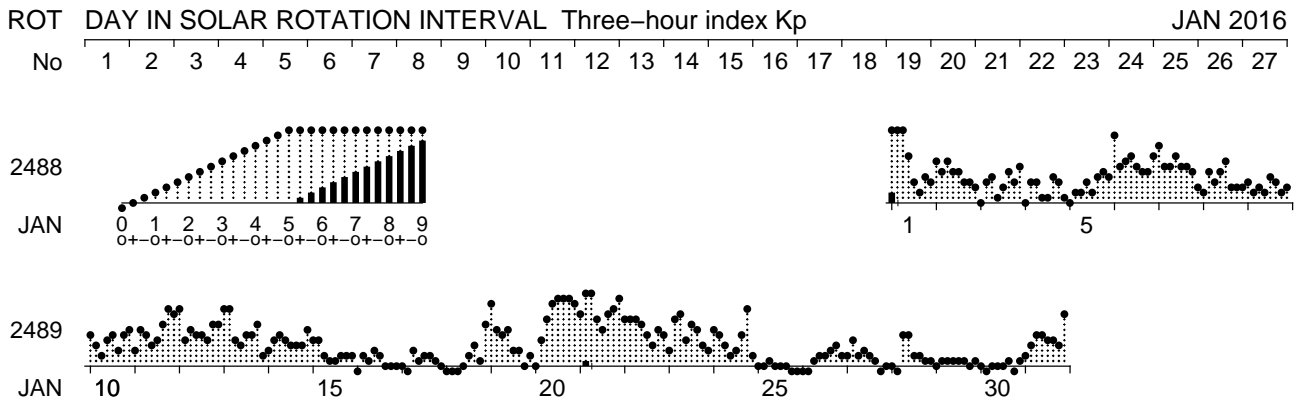
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## 1.4 *Dst*

### ISGI Collaborating Institute:

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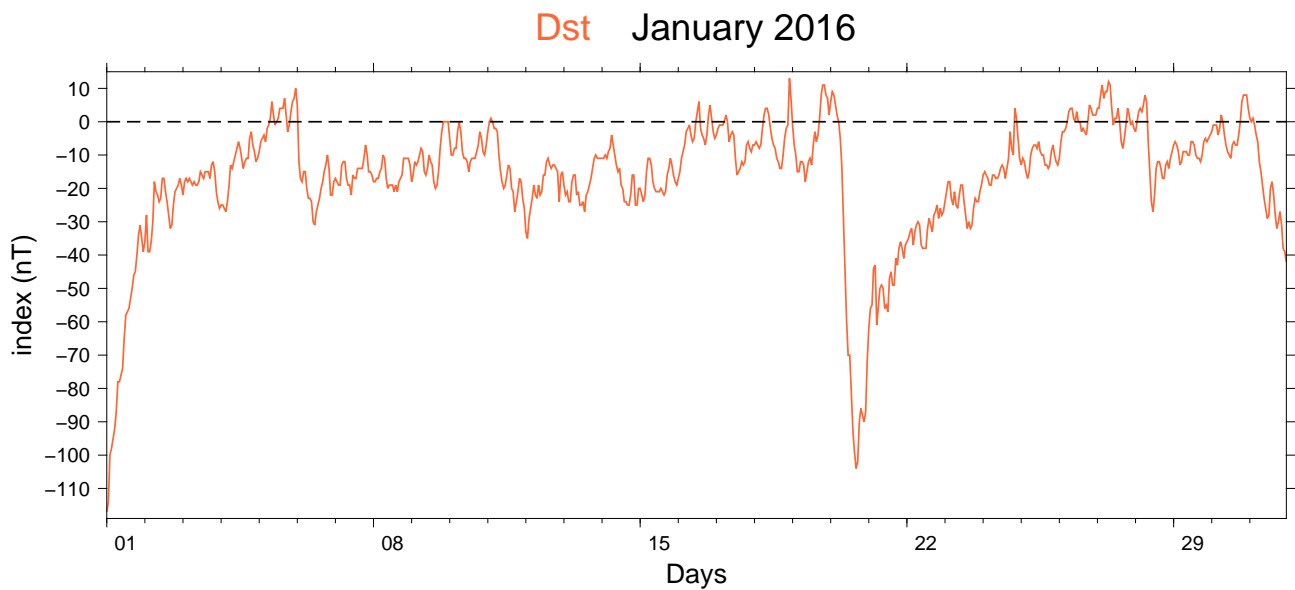
*Data Analysis Center for Geomagnetism and Space Magnetism*

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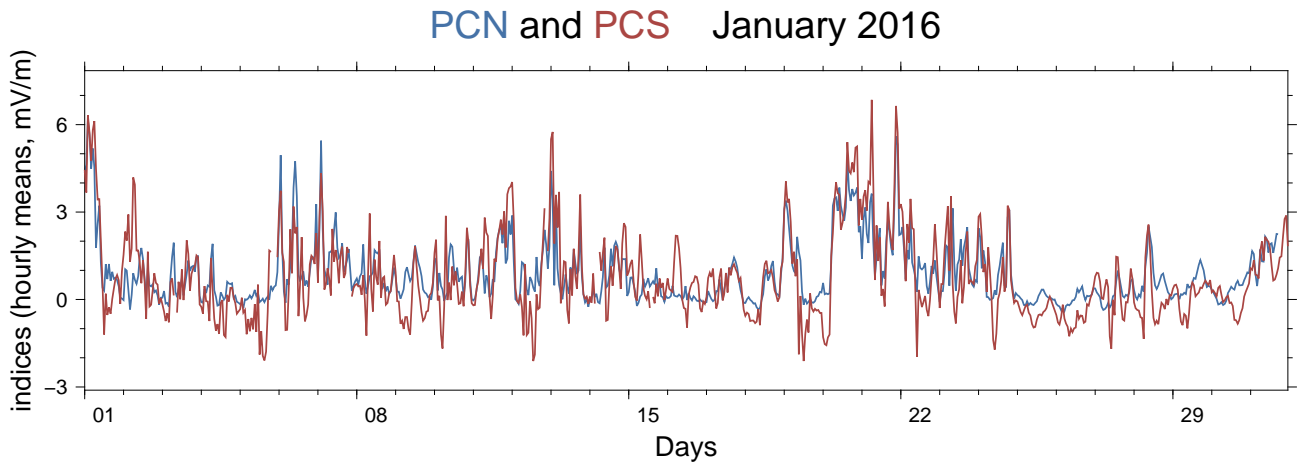


## 1.5 PC

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## 1.6 *AE*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

*Data Analysis Center for Geomagnetism and Space Magnetism*

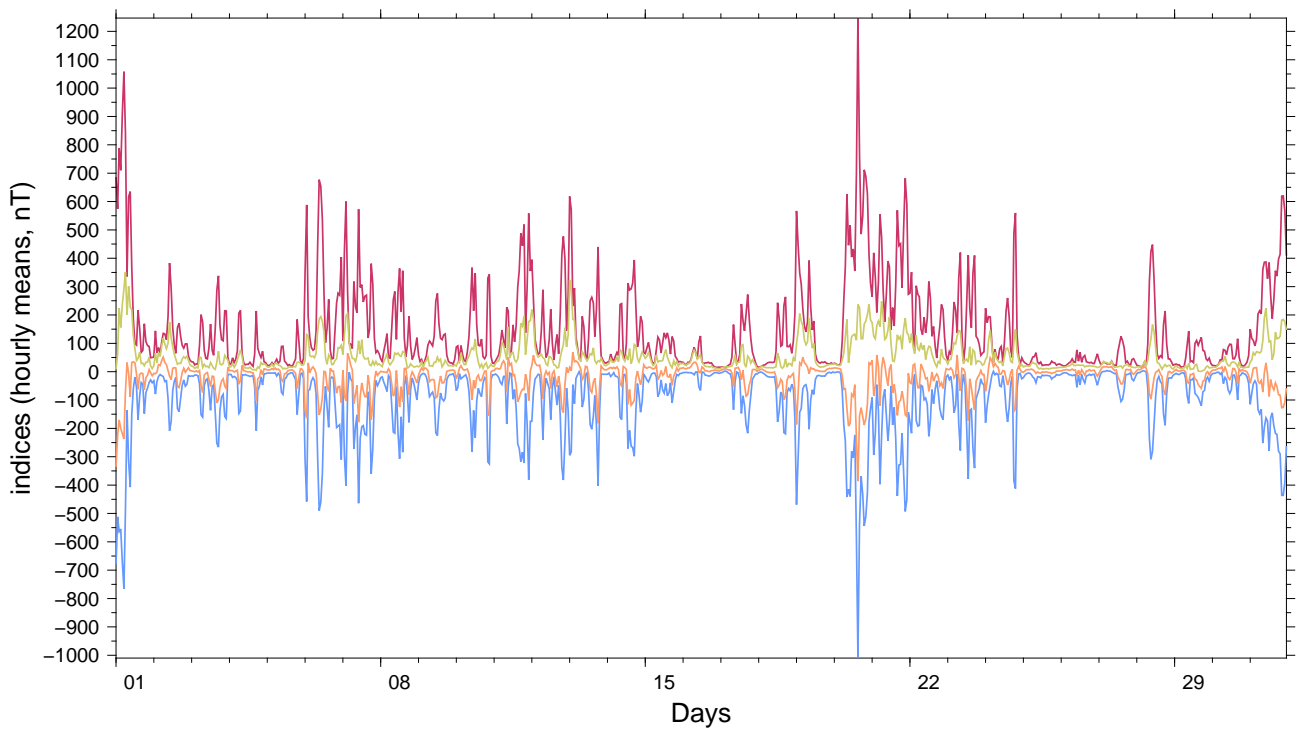
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### AE, AU, AL and AO January 2016



## 2 IAGA Endorsed Geomagnetic Events (non-definitive values)

### 2.1 *SSC* and *SFE*

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SSC:

2016 01 18 21 57 A: NUR NAG GUI CNB\*  
B: LER\* ESK WNG\* NGK\* HAD BDV\* HRB EBR  
C: VAL\* DOU GCK SPT HYB

SFE:

NONE

## 2.2 Classification of days

### ISGI Collaborating Institutes:

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Date	Aa	CK24	CK48	Ap	Q/D
2016-01-01	32	-	-	28	D2
2016-01-02	16	-	-	9	
2016-01-03	15	-	-	6	
2016-01-04	11	C	-	4	Q10
2016-01-05	16	-	-	5	
2016-01-06	30	-	-	16	D4*
2016-01-07	27	-	-	13	D5*
2016-01-08	15	-	-	7	
2016-01-09	11	C	C	5	
2016-01-10	18	-	-	8	
2016-01-11	26	-	-	13	
2016-01-12	28	-	-	13	
2016-01-13	25	-	-	13	
2016-01-14	19	-	-	7	
2016-01-15	11	C	-	4	Q8
2016-01-16	9	C	C	3	Q4
2016-01-17	11	C	C	3	Q5
2016-01-18	11	K	-	4	Q9K
2016-01-19	20	-	-	10	
2016-01-20	55	-	-	26	D3
2016-01-21	52	-	-	33	D1
2016-01-22	22	-	-	13	
2016-01-23	22	-	-	11	
2016-01-24	19	-	-	10	
2016-01-25	4	C	K	2	Q1
2016-01-26	10	C	C	3	Q6
2016-01-27	9	C	C	4	Q7
2016-01-28	11	C	C	4	
2016-01-29	6	C	C	3	Q3
2016-01-30	6	C	C	2	Q2
2016-01-31	19	-	-	9	



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