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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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MONTHLY BULLETIN MAY 2016

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

## 1.1 *aa*

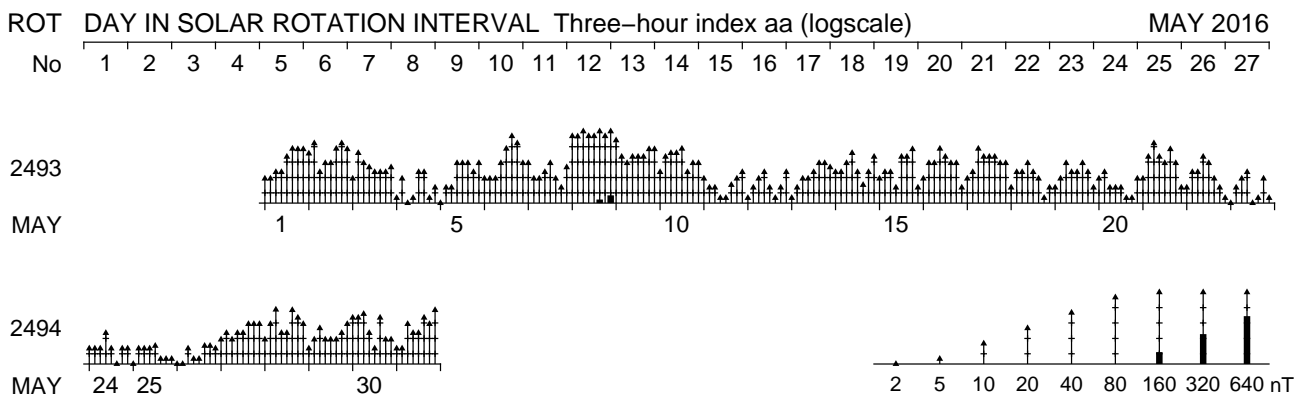
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## 1.2 *am*

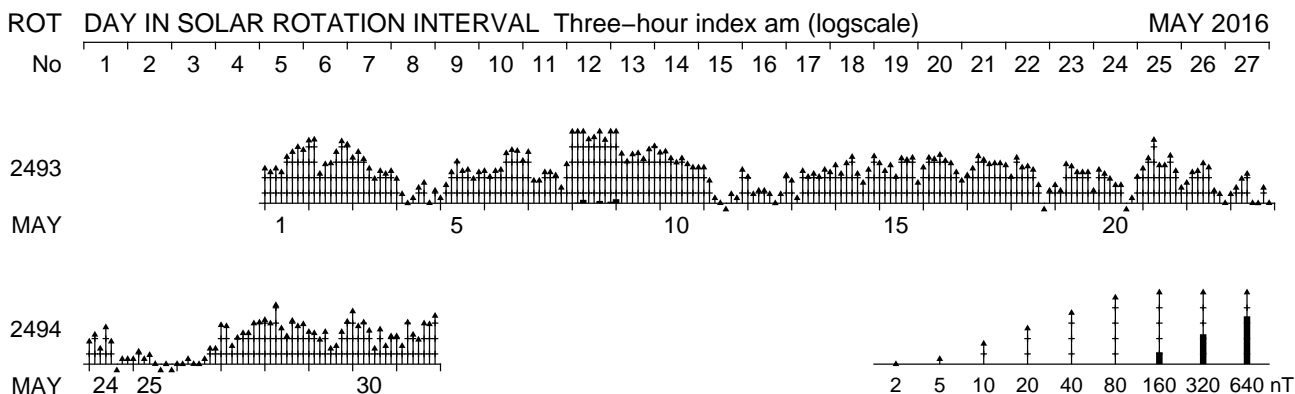
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### 1.3 $K_p$

#### ISGI Collaborating Institute:

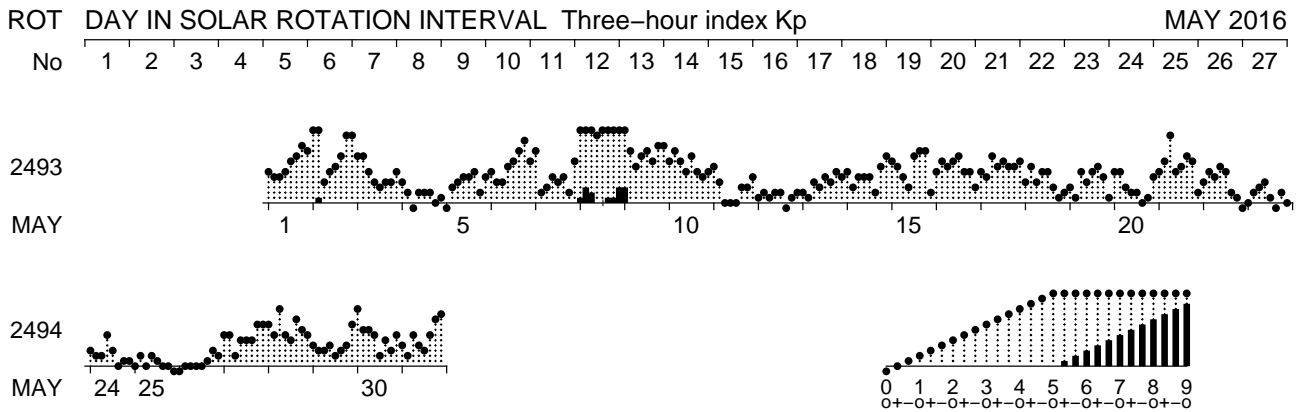
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## 1.4 *Dst*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

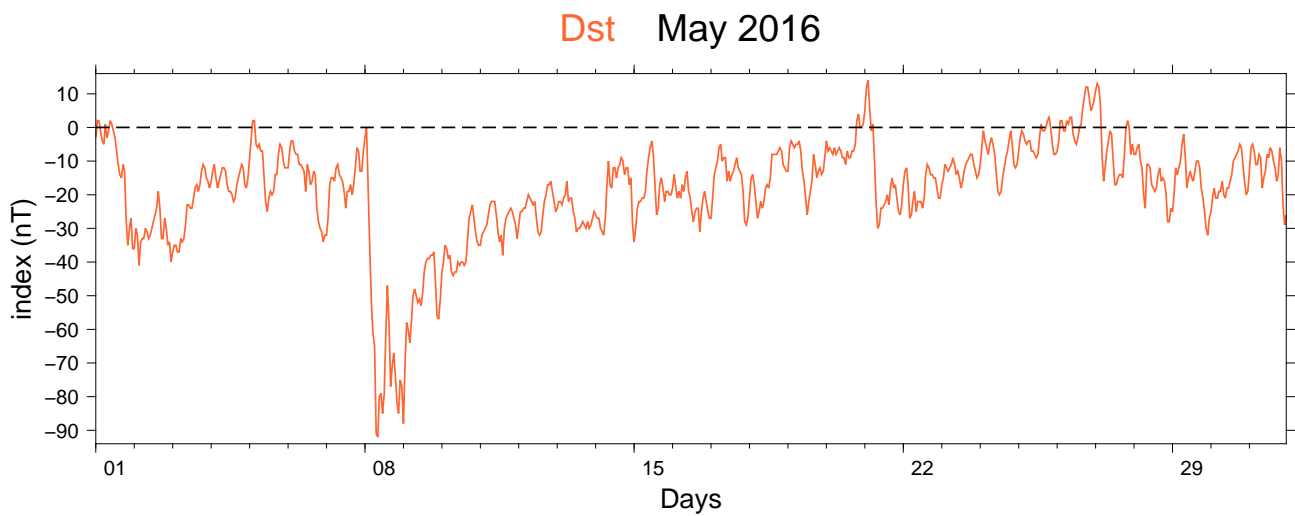
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*Graduate School of Science, Kyoto University*

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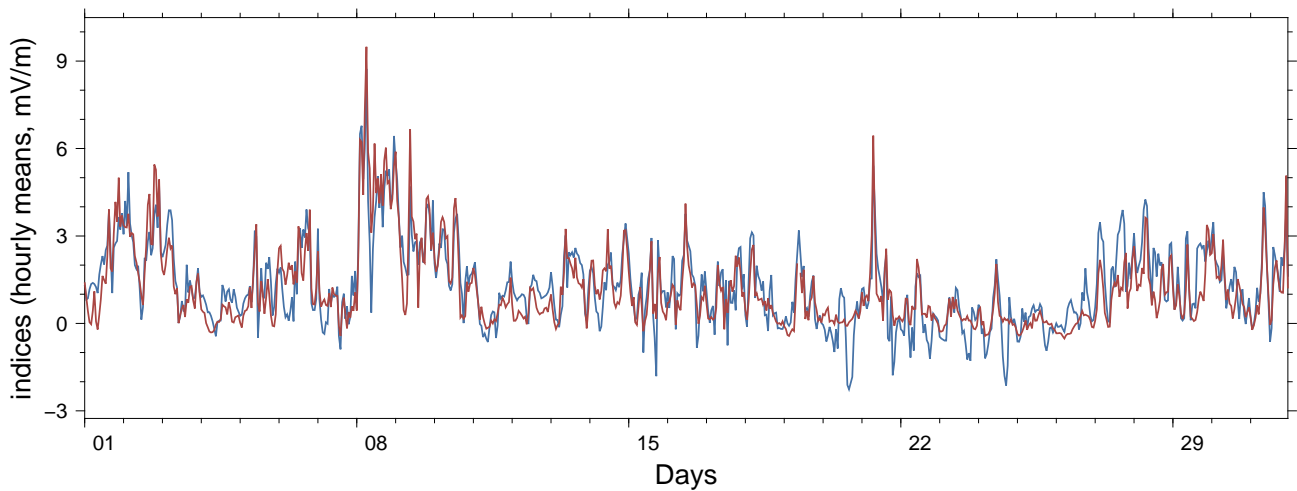
## 1.5 PC

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### PCN and PCS May 2016



## 1.6 *AE*

### ISGI Collaborating Institute:

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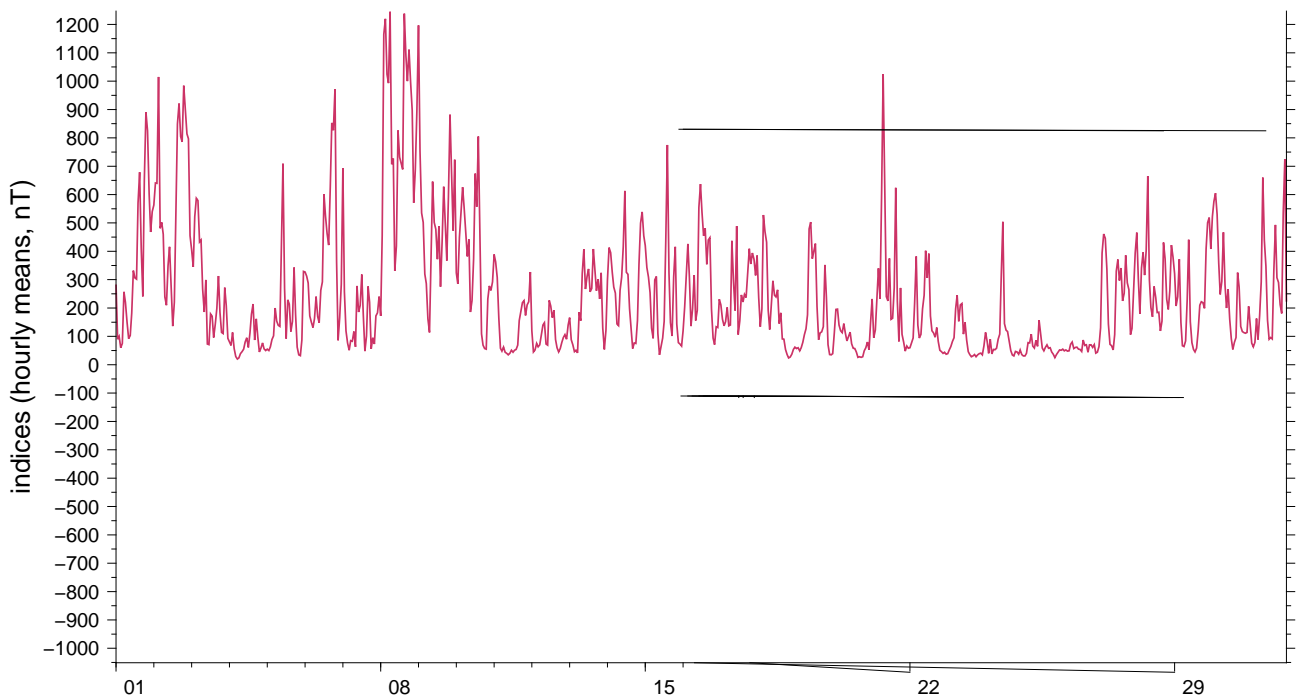
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## 2 IAGA Endorsed Geomagnetic Events (non-definitive values)

### 2.1 *SSC* and *SFE*

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SSC:

2016 05 08 01 08 B: LER ESK HAD\* BDV\* HRB SPT\*  
C: VAL\* DOU NAG GCK EBR

SFE:

NONE

## 2.2 Classification of days

### ISGI Collaborating Institutes:

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Date	Aa	CK24	CK48	Ap	Q/D
2016-05-01	28	-	-	14	D5*
2016-05-02	39	-	-	30	D3
2016-05-03	20	-	-	10	
2016-05-04	9	C	C	3	Q5
2016-05-05	16	-	-	6	Q10
2016-05-06	34	-	-	15	
2016-05-07	16	-	-	9	
2016-05-08	95	-	-	70	D1
2016-05-09	39	-	-	30	D2
2016-05-10	29	-	-	13	
2016-05-11	9	C	-	5	Q7
2016-05-12	10	C	C	3	Q3
2016-05-13	15	-	-	6	Q9
2016-05-14	21	-	-	9	
2016-05-15	21	-	-	13	
2016-05-16	24	-	-	12	
2016-05-17	27	-	-	12	
2016-05-18	13	-	-	7	
2016-05-19	16	-	-	7	
2016-05-20	9	C	-	5	Q8
2016-05-21	30	-	-	15	D4*
2016-05-22	15	-	-	6	
2016-05-23	8	C	C	3	Q4
2016-05-24	8	C	C	4	Q6
2016-05-25	6	C	C	2	Q1
2016-05-26	6	C	C	2	Q2
2016-05-27	18	-	-	9	
2016-05-28	27	-	-	13	
2016-05-29	15	-	-	6	
2016-05-30	23	-	-	11	
2016-05-31	22	-	-	10	



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