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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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MONTHLY BULLETIN AUGUST 2016

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

## 1.1 *aa*

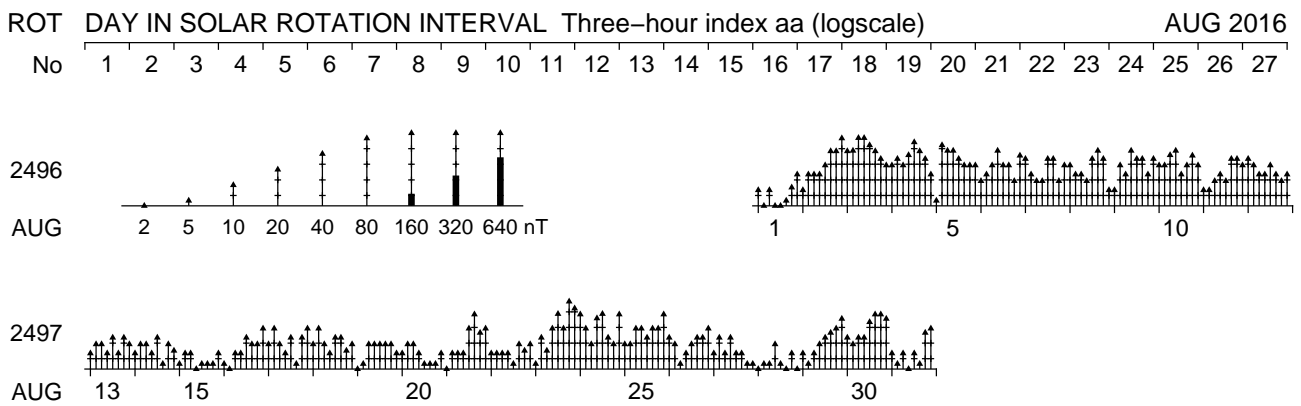
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*67084 Strasbourg Cedex - FRANCE*

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## 1.2 *am*

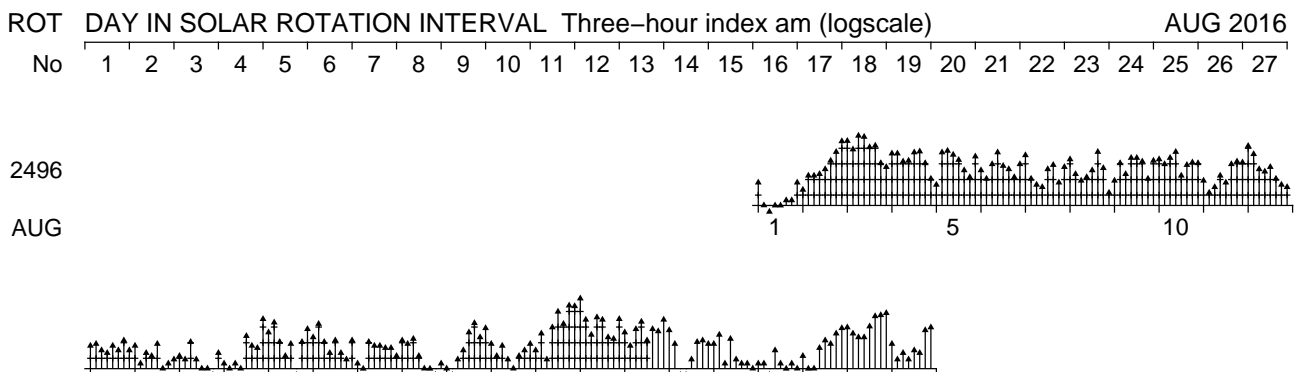
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### 1.3 $K_p$

#### ISGI Collaborating Institute:

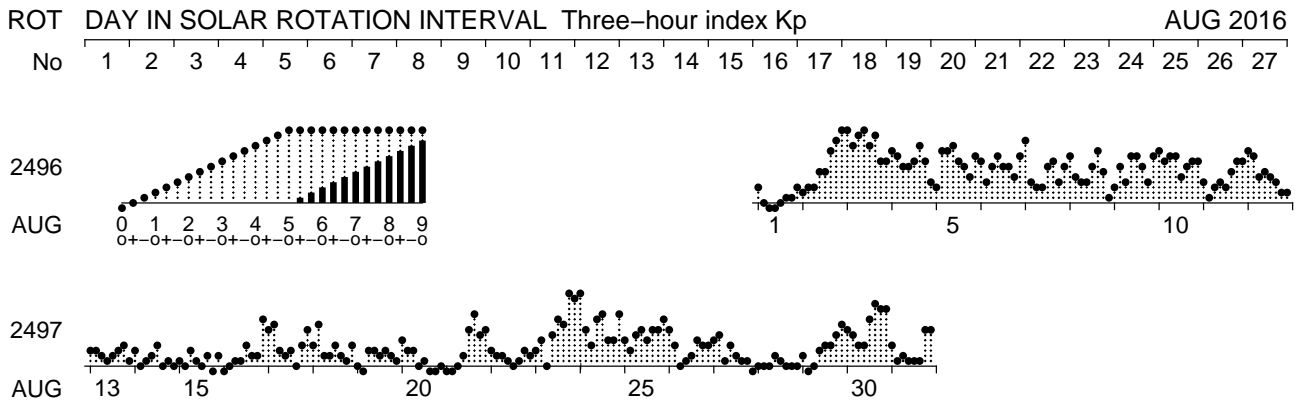
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## 1.4 *Dst*

### ISGI Collaborating Institute:

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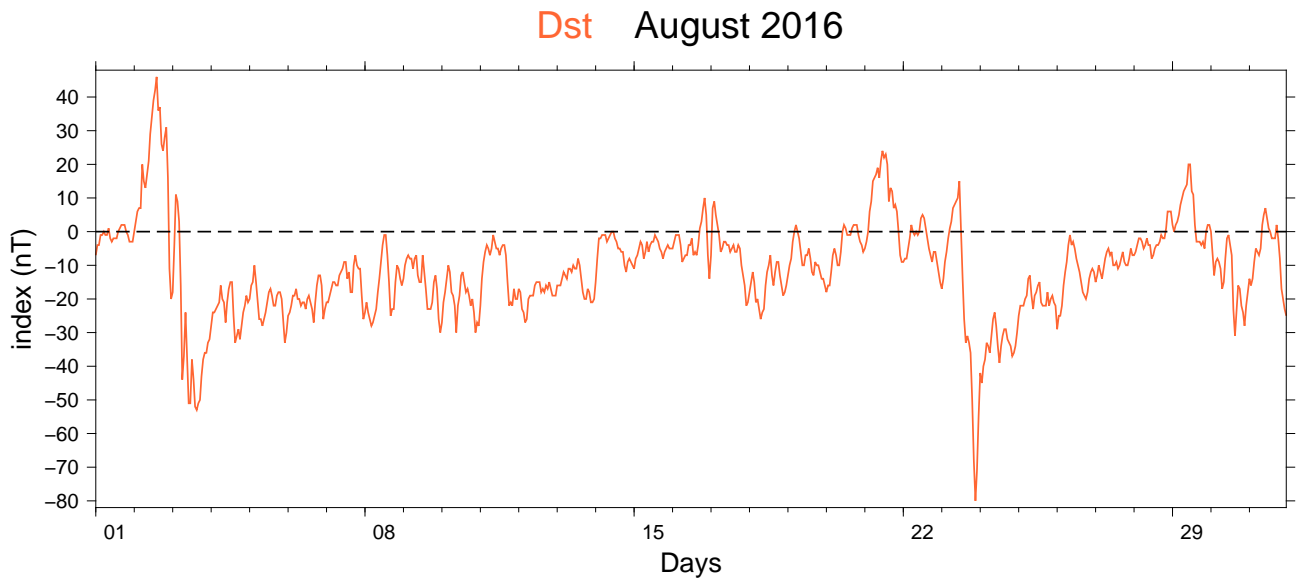
*Data Analysis Center for Geomagnetism and Space Magnetism*

*Graduate School of Science, Kyoto University*

*Kitashirakawa-Oiwake Cho, Sakyo-ku*

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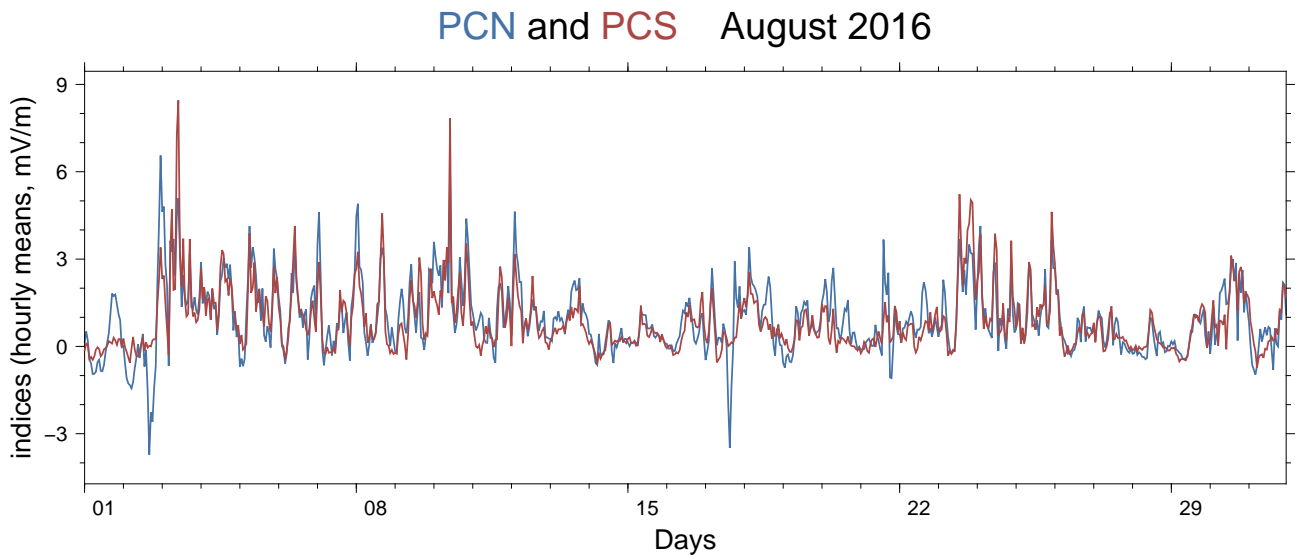


## 1.5 PC

### ISGI Collaborating Institutes:

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## 1.6 *AE*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

*Data Analysis Center for Geomagnetism and Space Magnetism*

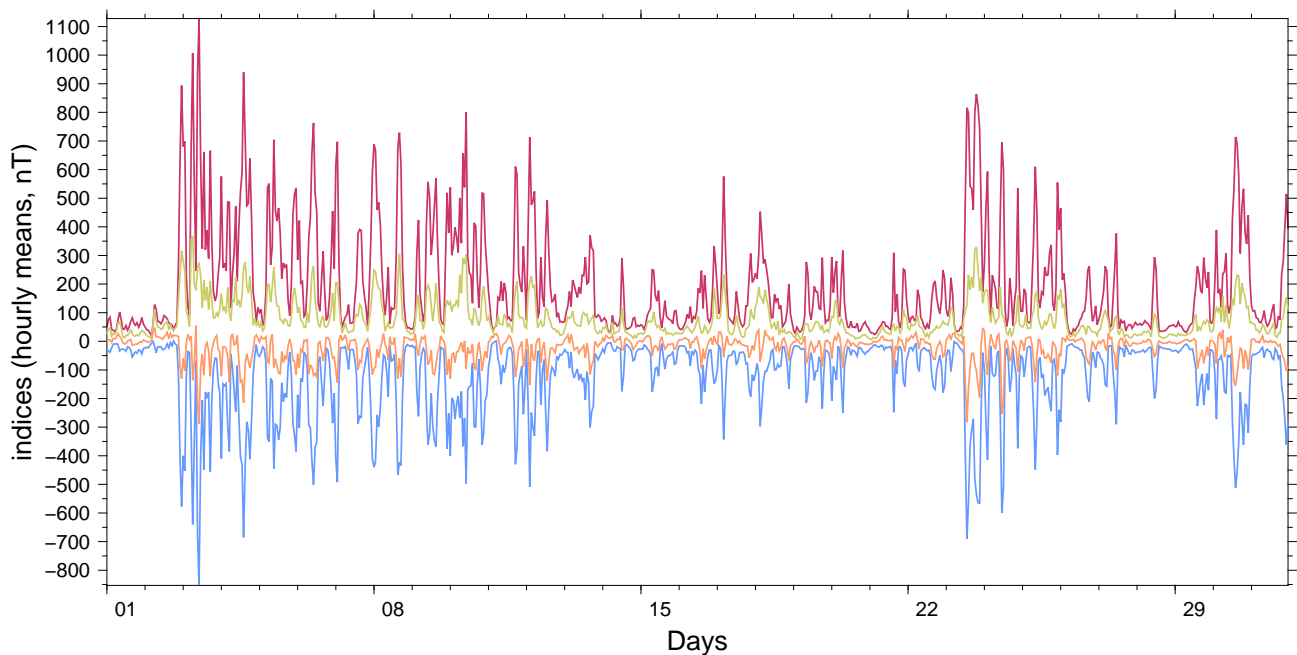
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### AE, AU, AL and AO August 2016



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

### 2.1 *SSC* and *SFE*

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SSC:

NONE

SFE:

NONE

## 2.2 Classification of days

### ISGI Collaborating Institutes:

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Date	Aa	CK24	CK48	Ap	Q/D
2016-08-01	7	C	C	2	Q2
2016-08-02	31	-	-	17	
2016-08-03	52	-	-	32	D1
2016-08-04	35	-	-	16	
2016-08-05	33	-	-	16	D5*
2016-08-06	24	-	-	12	
2016-08-07	22	-	-	12	
2016-08-08	23	-	-	10	
2016-08-09	26	-	-	12	
2016-08-10	29	-	-	15	
2016-08-11	18	-	-	8	
2016-08-12	20	-	-	10	
2016-08-13	12	C	-	4	Q8
2016-08-14	10	C	C	3	Q4
2016-08-15	6	C	C	3	Q3
2016-08-16	11	C	C	5	Q10K
2016-08-17	15	-	-	8	
2016-08-18	14	-	-	6	
2016-08-19	9	C	C	4	Q6
2016-08-20	8	C	C	3	Q7
2016-08-21	17	-	K	8	
2016-08-22	9	C	-	4	Q5
2016-08-23	33	-	-	18	D4*
2016-08-24	30	-	-	19	D2*
2016-08-25	23	-	-	10	
2016-08-26	14	-	-	6	
2016-08-27	9	C	C	4	Q9
2016-08-28	5	C	C	2	Q1
2016-08-29	16	-	-	6	
2016-08-30	27	-	-	17	D3*
2016-08-31	10	C	-	6	



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