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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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## MONTHLY BULLETIN AUGUST 2015

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

## 1.1 *aa*

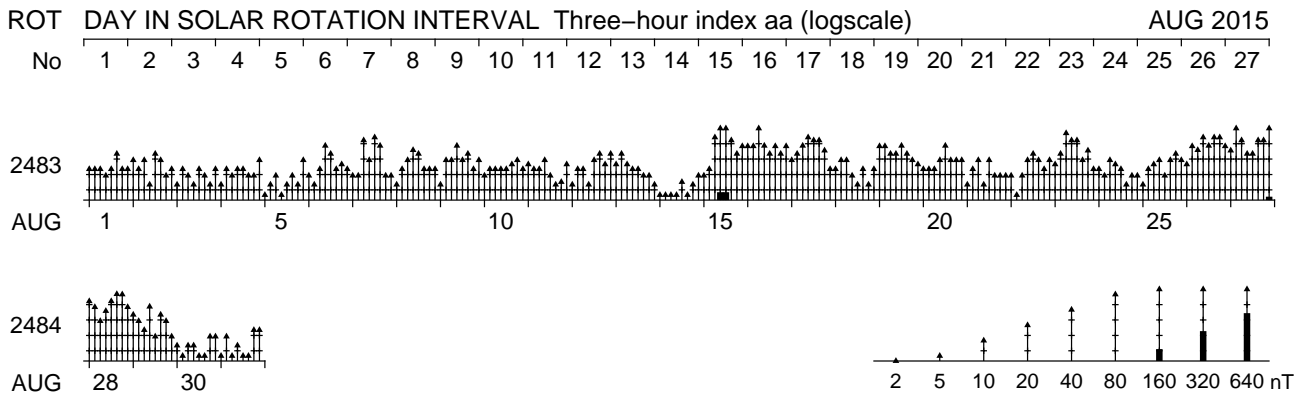
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## 1.2 *am*

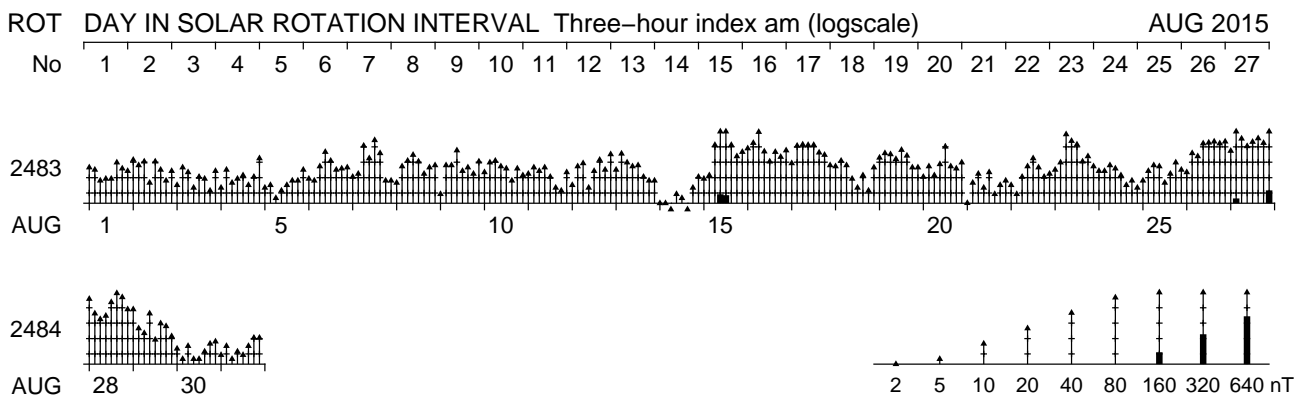
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### 1.3 $K_p$

**ISGI Collaborating Institute:**

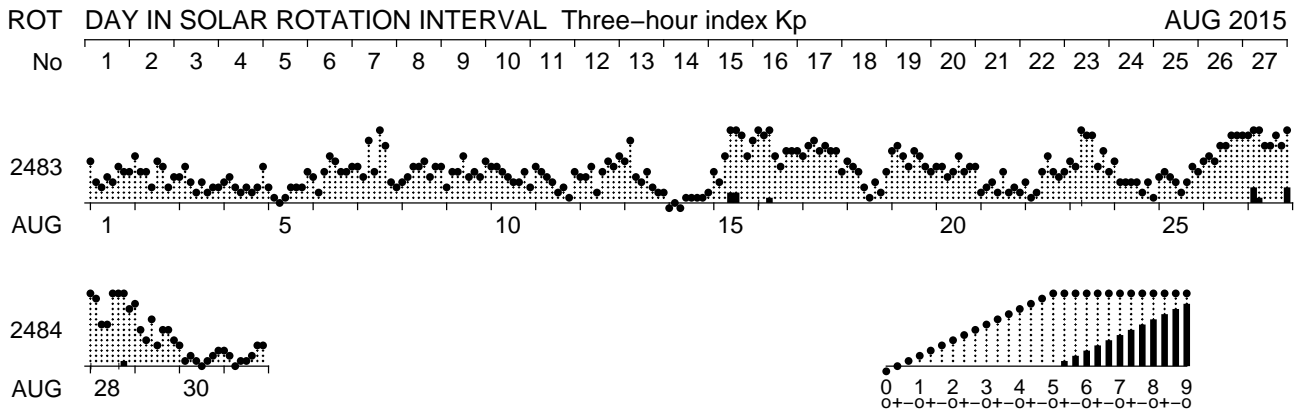
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## 1.4 *Dst*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

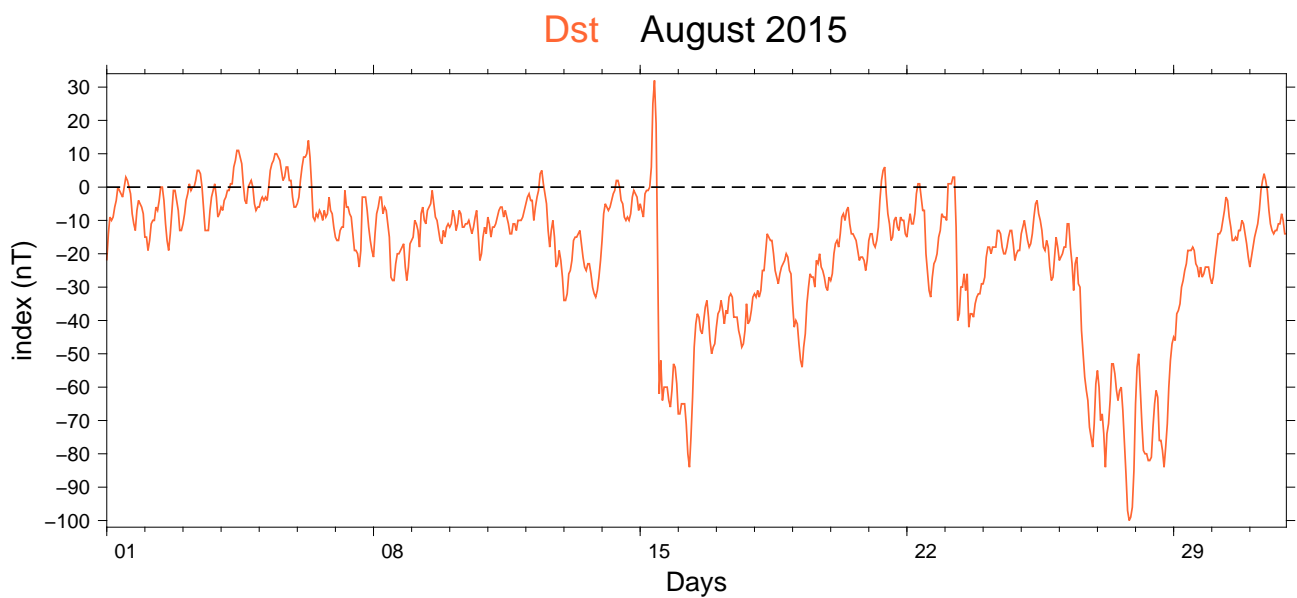
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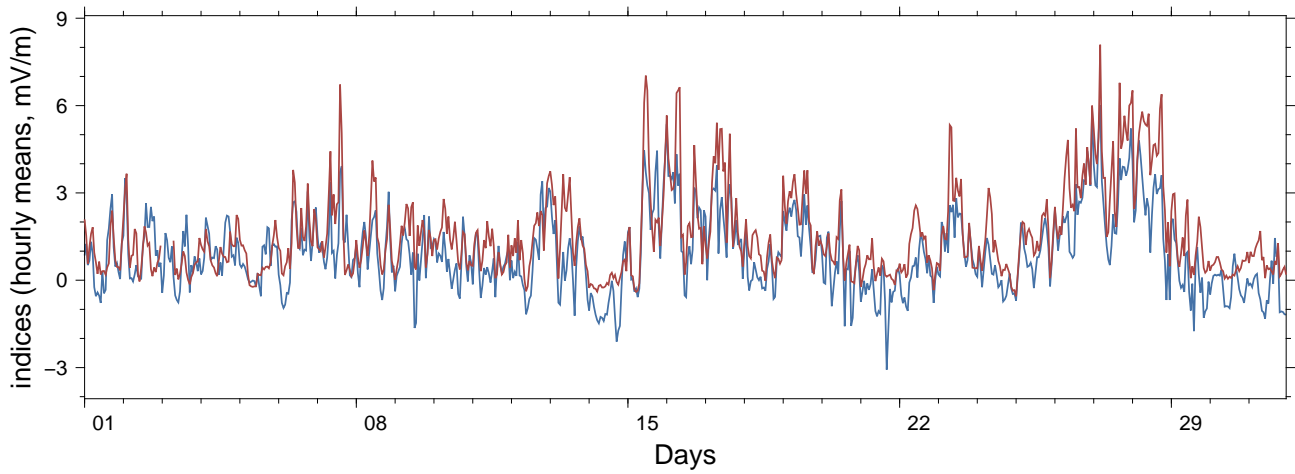
## 1.5 PC

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### PCN and PCS August 2015



## 1.6 *AE*

### ISGI Collaborating Institute:

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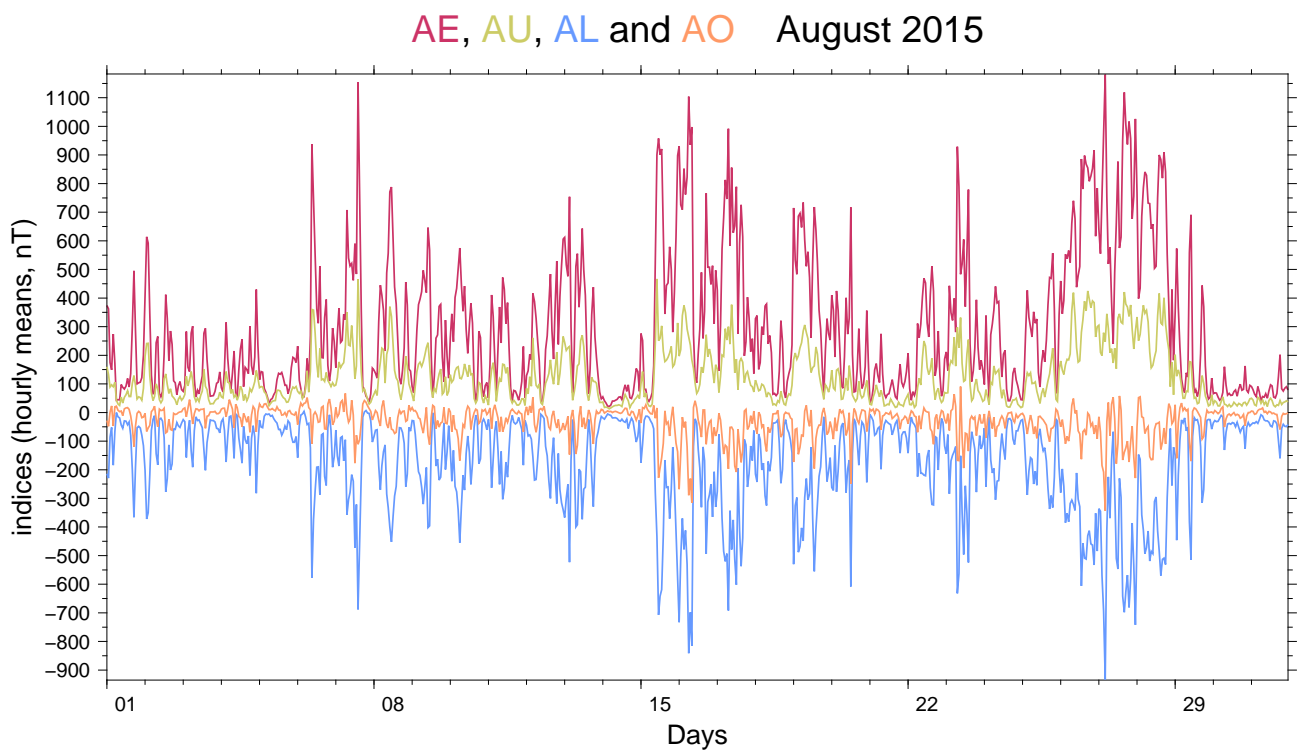
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## 2 IAGA Endorsed Geomagnetic Events (non-definitive values)

### 2.1 *SSC* and *SFE*

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SSC:

2015 08 15 08 28 A: SOD NUR LER\* ESK\* HAD\* NAG\* MMB\* SPT\* GNG CNB\*  
B: WNG\* NGK DOU BDV\* HRB EBR KAK\* KNY\* HYB  
C: VAL\* GCK

2015 08 28 12 49 A: LER ESK HAD  
B: VAL  
C: SPT

SFE:

NONE

## 2.2 Classification of days

### ISGI Collaborating Institutes:

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Date	Aa	CK24	CK48	Ap	Q/D
2015-08-01	18	-	-	9	
2015-08-02	20	-	-	10	
2015-08-03	12	C	-	6	Q7
2015-08-04	15	-	C	6	Q6
2015-08-05	10	C	-	5	Q4
2015-08-06	21	-	-	10	
2015-08-07	31	-	-	18	
2015-08-08	21	-	-	10	
2015-08-09	25	-	-	10	
2015-08-10	17	-	-	8	
2015-08-11	16	-	-	7	Q9A
2015-08-12	20	-	-	10	
2015-08-13	17	-	-	10	
2015-08-14	7	C	-	2	Q1
2015-08-15	63	-	-	35	D3
2015-08-16	49	-	-	32	D4
2015-08-17	43	-	-	22	
2015-08-18	16	-	-	8	
2015-08-19	35	-	-	18	
2015-08-20	24	-	-	11	
2015-08-21	15	-	-	5	Q5
2015-08-22	19	-	-	8	
2015-08-23	41	-	-	26	D5
2015-08-24	15	-	-	6	Q8K
2015-08-25	20	-	-	8	Q10A
2015-08-26	49	-	-	27	
2015-08-27	62	-	-	52	D1
2015-08-28	54	-	-	40	D2
2015-08-29	25	-	-	13	
2015-08-30	8	C	K	4	Q2
2015-08-31	9	C	C	4	Q3



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