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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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## MONTHLY BULLETIN NOVEMBER 2016

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

## 1.1 *aa*

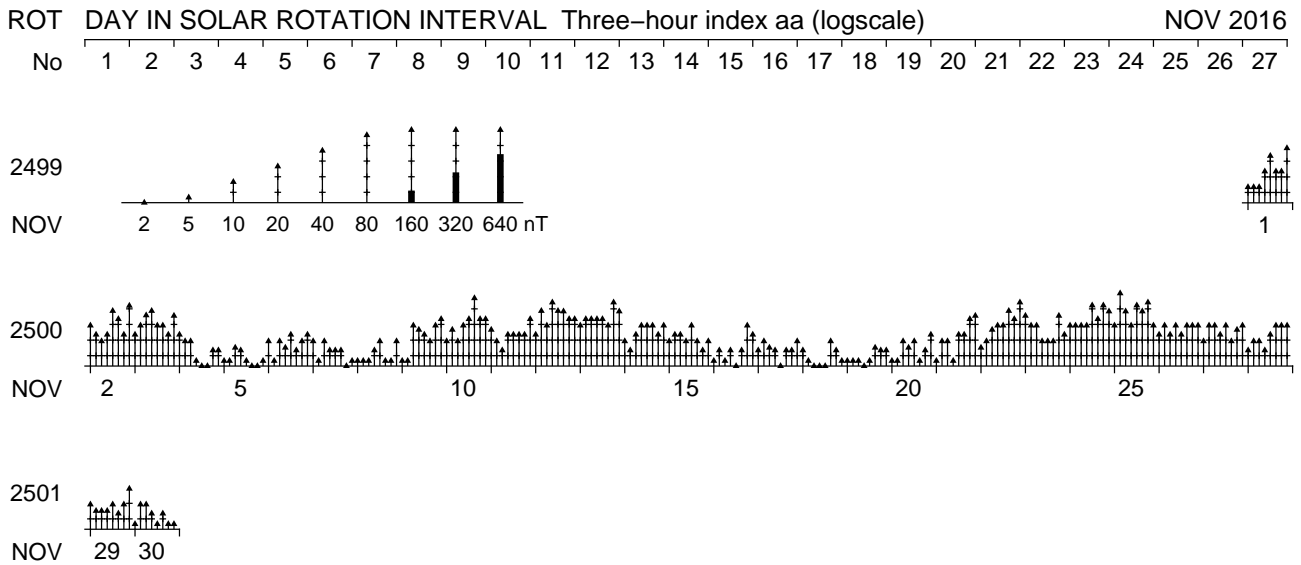
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*Ecole et Observatoire des Sciences de la Terre*

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*67084 Strasbourg Cedex - FRANCE*

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## 1.2 *am*

### ISGI Collaborating Institute:

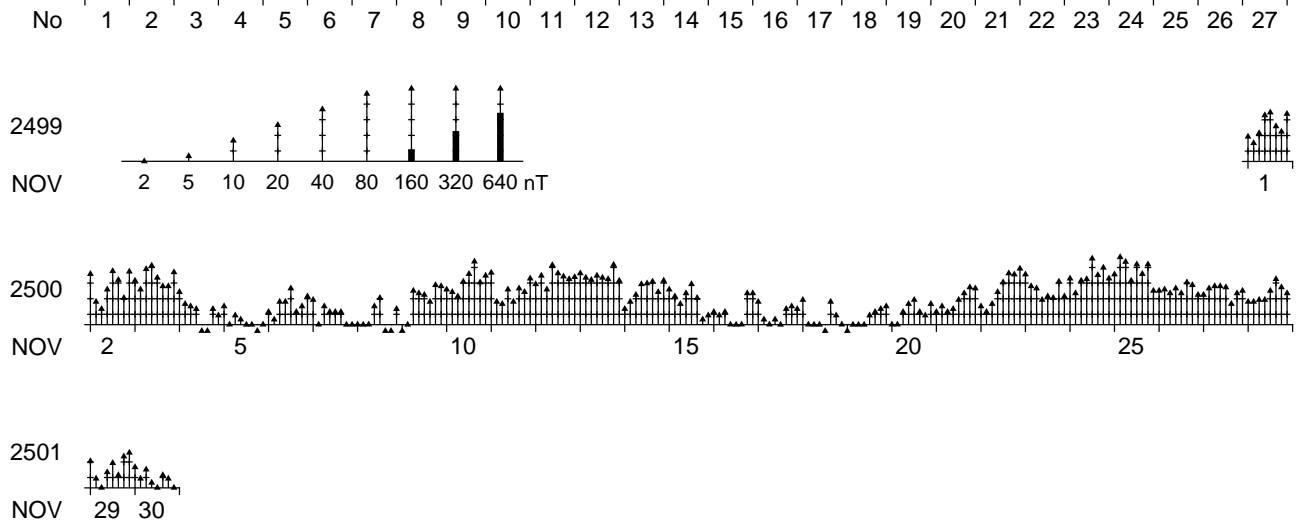
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ROT DAY IN SOLAR ROTATION INTERVAL Three-hour index am (logscale) NOV 2016



### 1.3 $K_p$

#### ISGI Collaborating Institute:

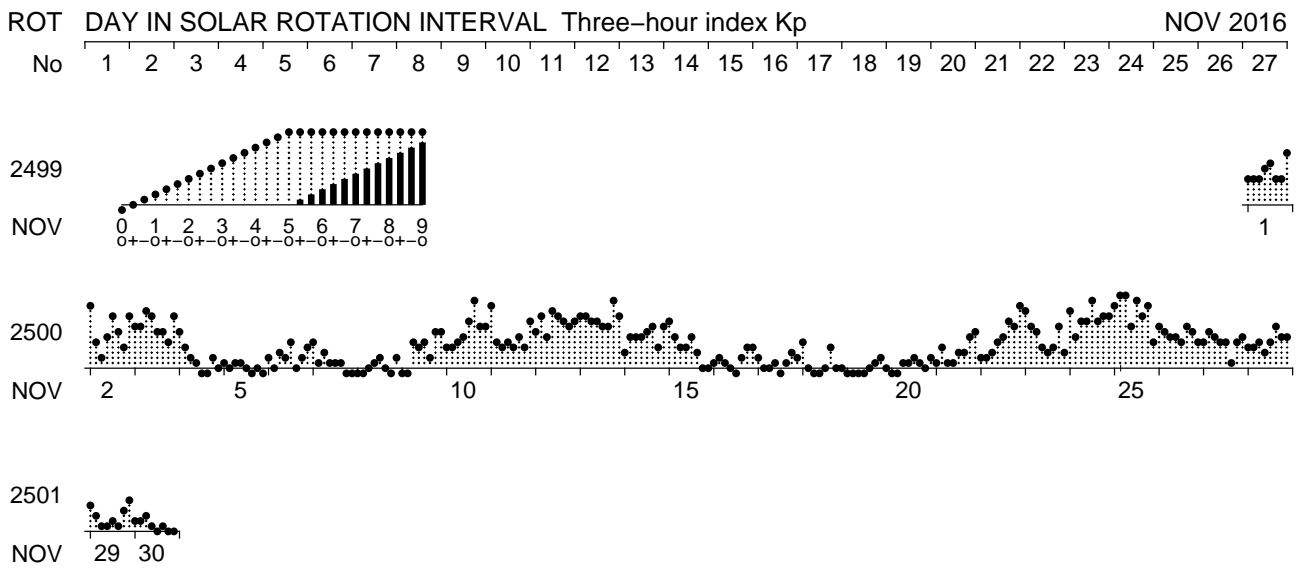
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## 1.4 *Dst*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

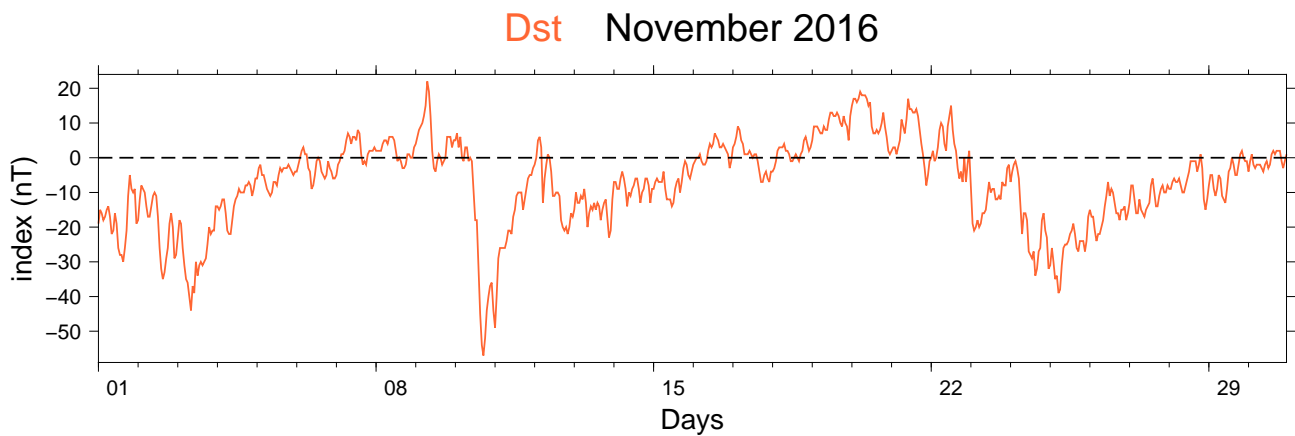
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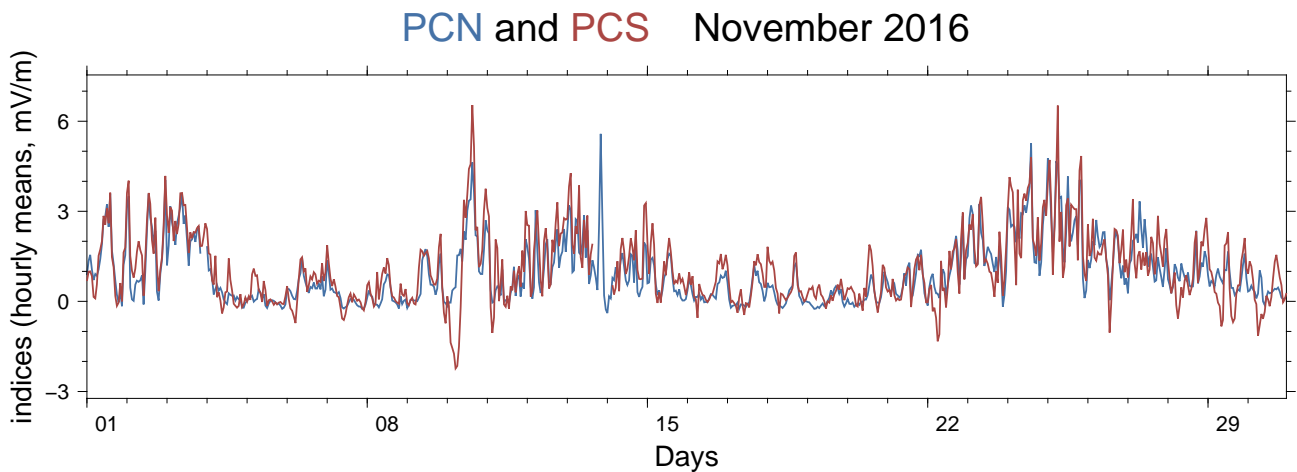


## 1.5 PC

### ISGI Collaborating Institutes:

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## 1.6 *AE*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

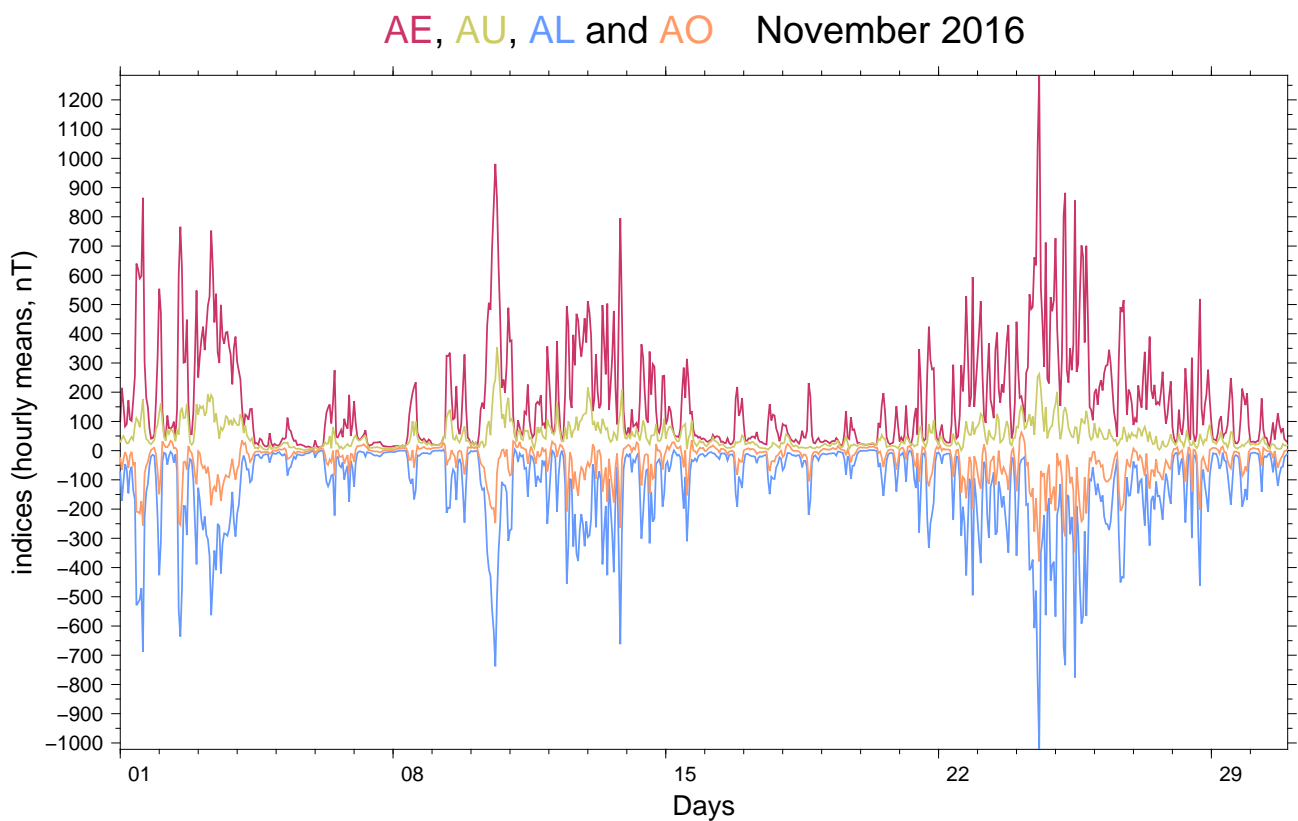
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## 2 IAGA Endorsed Geomagnetic Events (non-definitive values)

### 2.1 *SSC* and *SFE*

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SSC:

???

SFE:

NONE



## 2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2016-11-01	19	-	-	10	
2016-11-02	28	-	-	14	
2016-11-03	28	-	-	16	D5*
2016-11-04	8	C	K	4	
2016-11-05	5	C	C	2	Q1
2016-11-06	11	C	C	4	Q10
2016-11-07	8	C	C	3	Q8
2016-11-08	7	C	C	2	Q3
2016-11-09	17	-	-	6	
2016-11-10	31	-	-	14	
2016-11-11	17	-	-	11	
2016-11-12	39	-	-	18	D4*
2016-11-13	36	-	-	21	D3
2016-11-14	19	-	-	10	
2016-11-15	14	-	-	7	
2016-11-16	10	C	C	4	Q9
2016-11-17	8	C	C	3	Q5
2016-11-18	6	C	C	3	Q7
2016-11-19	6	C	C	1	Q2
2016-11-20	9	C	C	2	Q4
2016-11-21	17	-	-	6	
2016-11-22	29	-	-	12	
2016-11-23	22	-	-	11	
2016-11-24	36	-	-	22	D2
2016-11-25	49	-	-	31	D1
2016-11-26	21	-	-	11	
2016-11-27	20	-	-	8	
2016-11-28	16	-	-	8	
2016-11-29	12	C	-	5	
2016-11-30	8	C	C	3	Q6

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