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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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## MONTHLY BULLETIN FEBRUARY 2015

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

## 1.1 *aa*

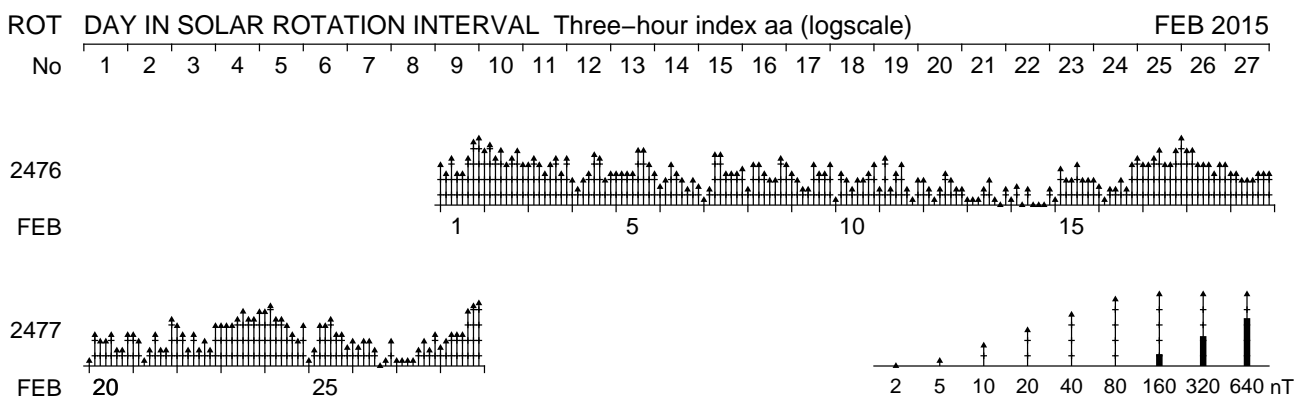
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## 1.2 *am*

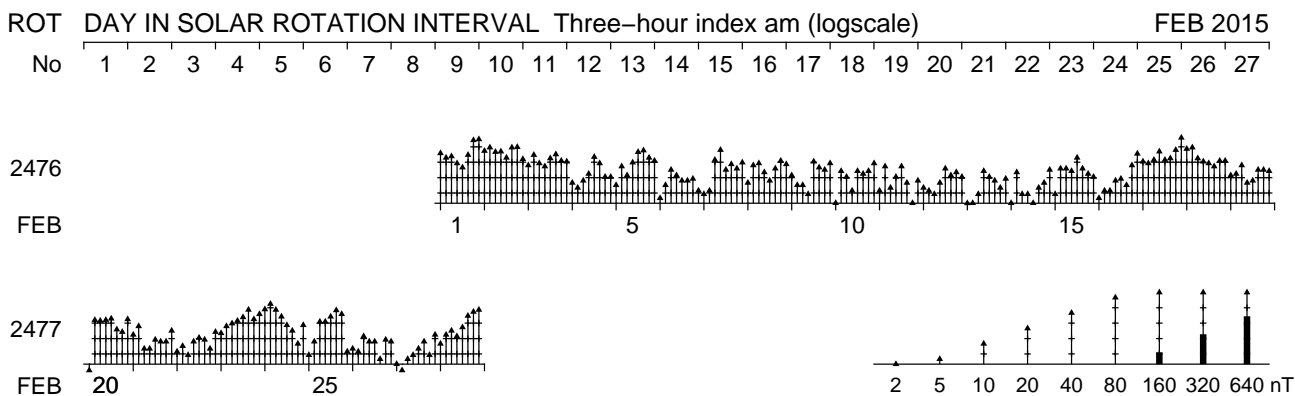
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### 1.3 $K_p$

#### ISGI Collaborating Institute:

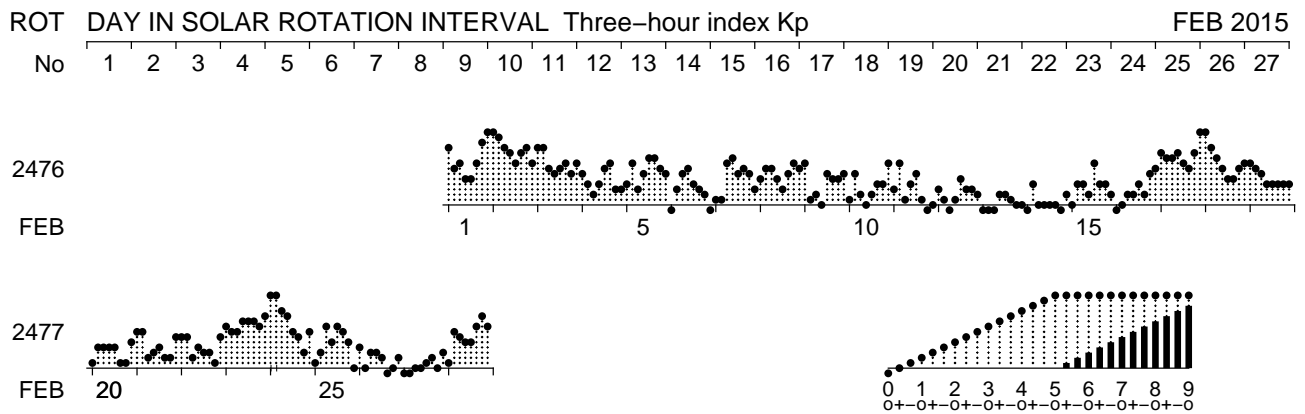
*Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum*

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## 1.4 *Dst*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

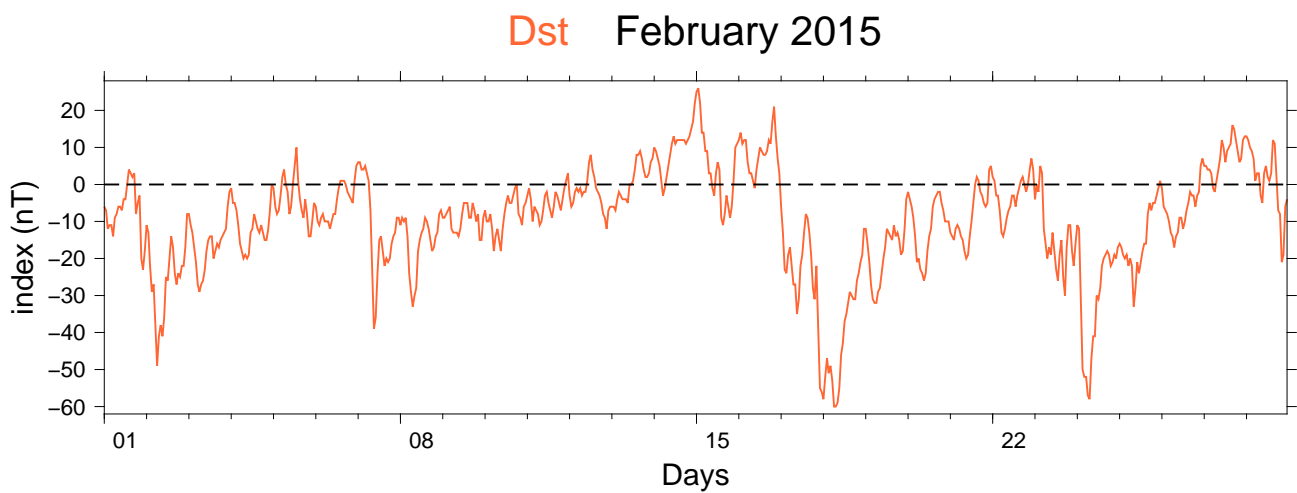
*Data Analysis Center for Geomagnetism and Space Magnetism*

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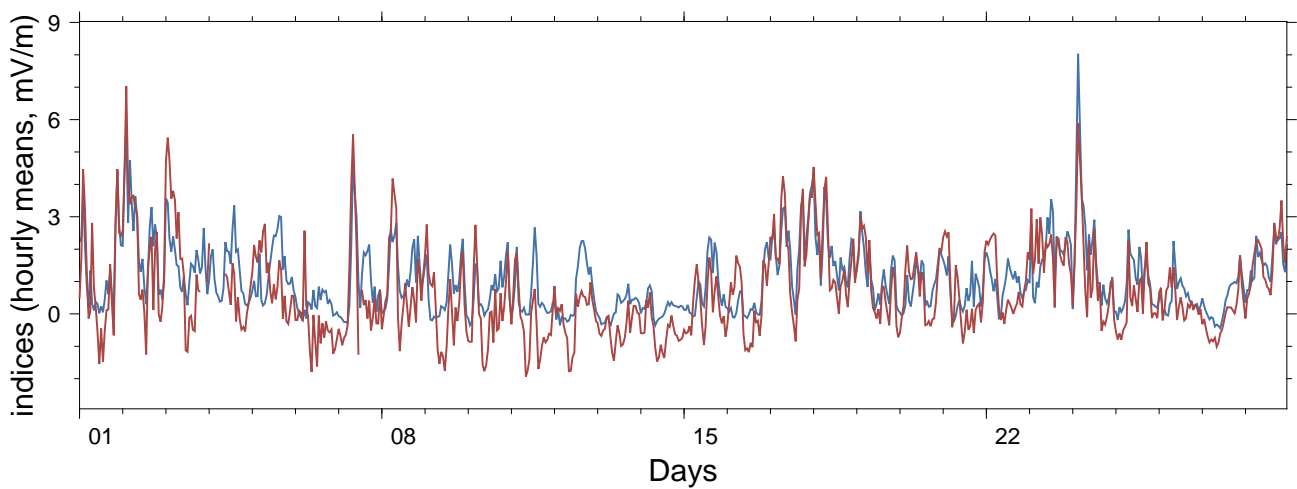
## 1.5 PC

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### PCN and PCS February 2015



## 1.6 *AE*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

*Data Analysis Center for Geomagnetism and Space Magnetism*

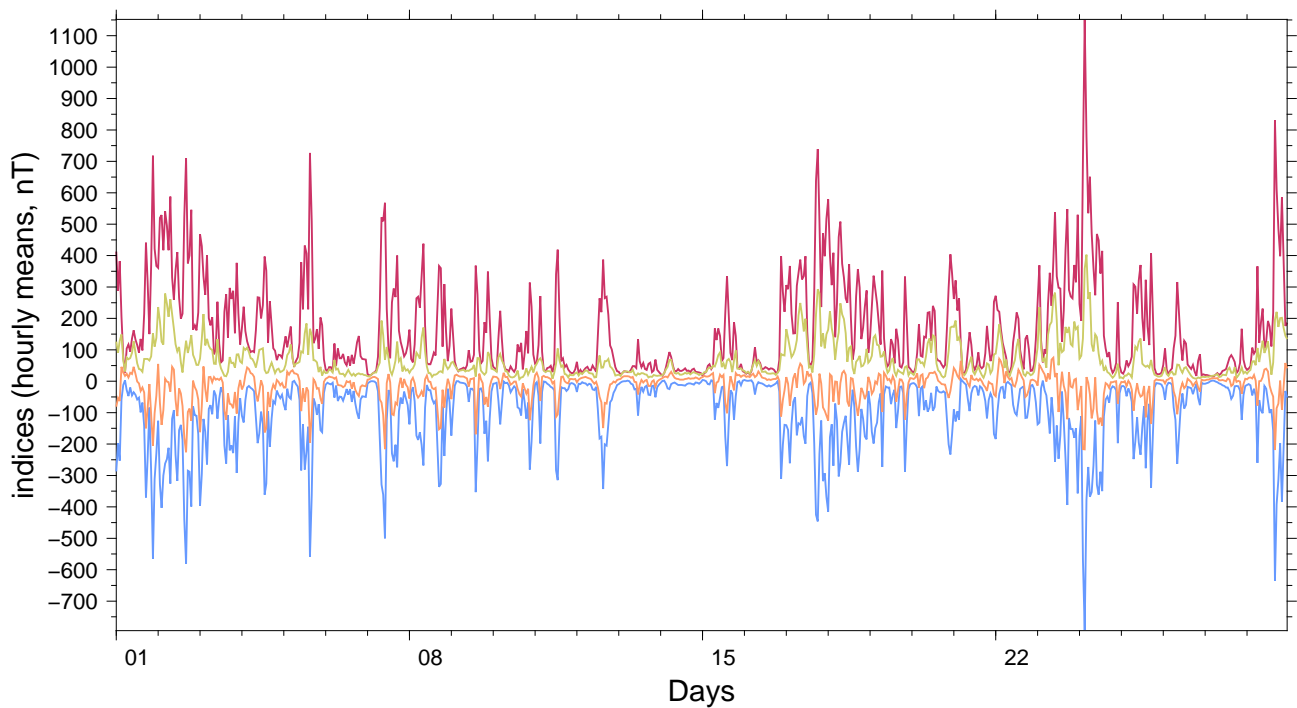
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### AE, AU, AL and AO February 2015



## 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

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 5, rue René Descartes  
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Date	Aa	CK24	CK48	Ap	Q/D
2015-02-01	35	-	-	20	D4
2015-02-02	38	-	-	27	D1
2015-02-03	25	-	-	16	
2015-02-04	18	-	-	8	
2015-02-05	25	-	-	12	
2015-02-06	13	-	-	5	Q8
2015-02-07	20	-	-	9	
2015-02-08	19	-	-	10	
2015-02-09	16	-	-	7	
2015-02-10	13	-	-	6	
2015-02-11	14	-	-	5	Q9K
2015-02-12	10	C	C	4	Q5
2015-02-13	6	C	C	2	Q1
2015-02-14	5	C	C	2	Q3
2015-02-15	14	-	C	6	Q10K
2015-02-16	13	-	-	5	Q7
2015-02-17	37	-	-	22	D3
2015-02-18	28	-	-	18	D5*
2015-02-19	15	-	-	8	
2015-02-20	12	C	C	5	Q6
2015-02-21	13	-	-	7	
2015-02-22	15	-	-	6	
2015-02-23	32	-	-	16	
2015-02-24	31	-	-	25	D2
2015-02-25	17	-	-	8	
2015-02-26	9	C	C	4	Q4
2015-02-27	8	C	C	2	Q2
2015-02-28	30	-	-	11	

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