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# INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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MONTHLY BULLETIN JUNE 2015

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

## 1.1 *aa*

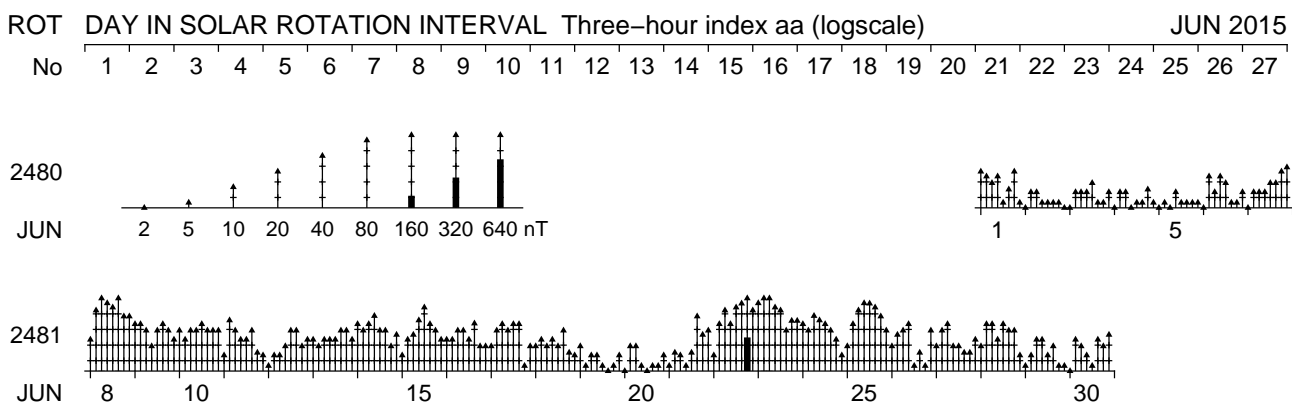
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Contact: A. Chambodut <[isgi@unistra.fr](mailto:isgi@unistra.fr)>



## 1.2 *am*

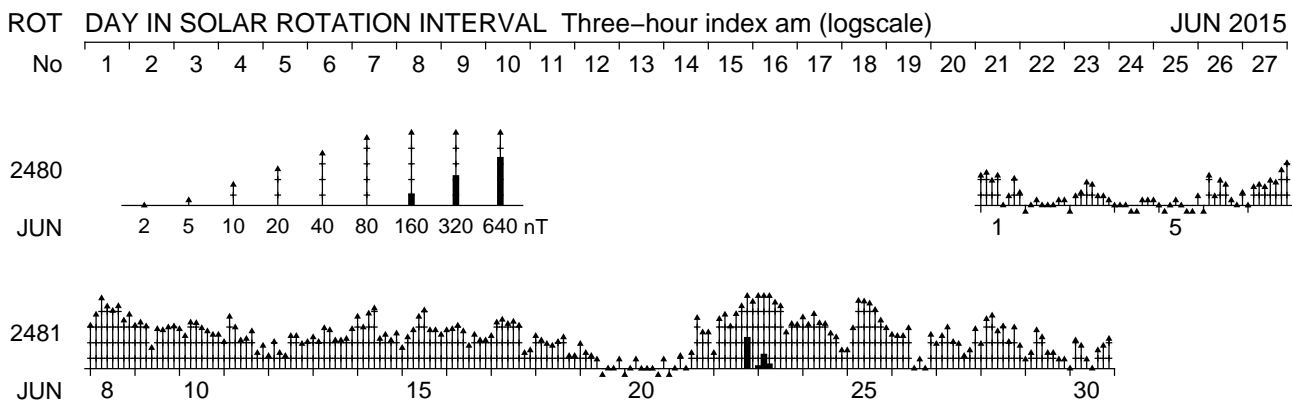
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### 1.3 $K_p$

#### ISGI Collaborating Institute:

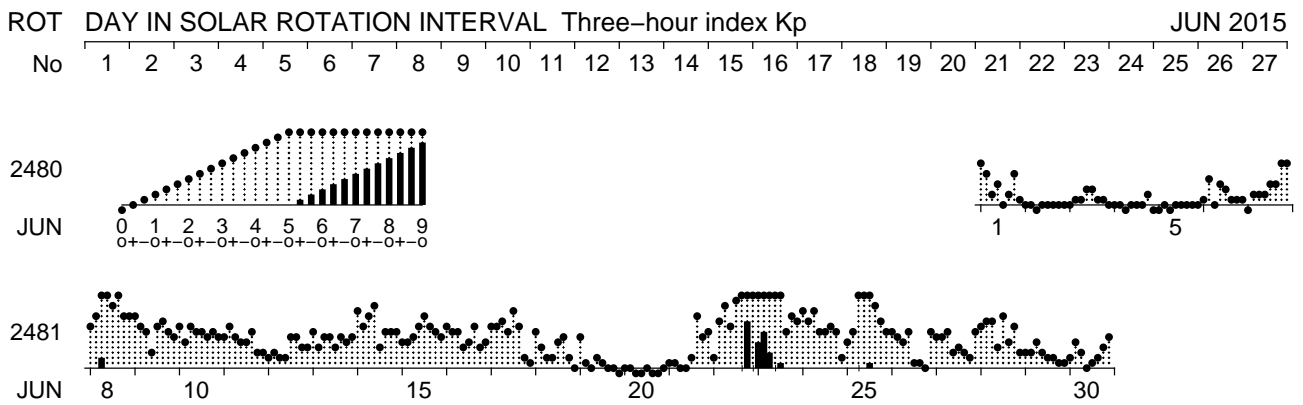
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## 1.4 *Dst*

### ISGI Collaborating Institute:

*World Data Center for Geomagnetism, Kyoto*

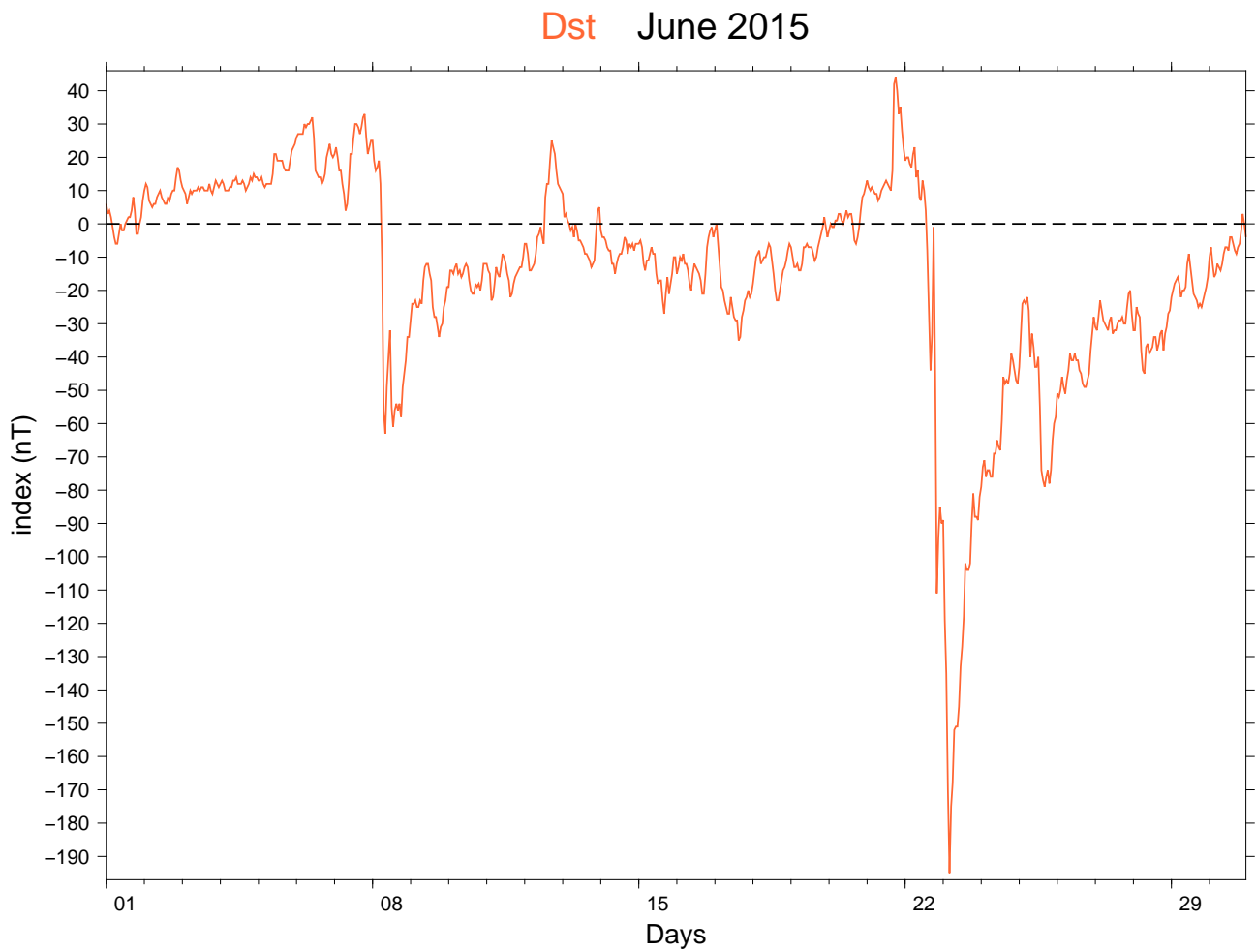
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*Graduate School of Science, Kyoto University*

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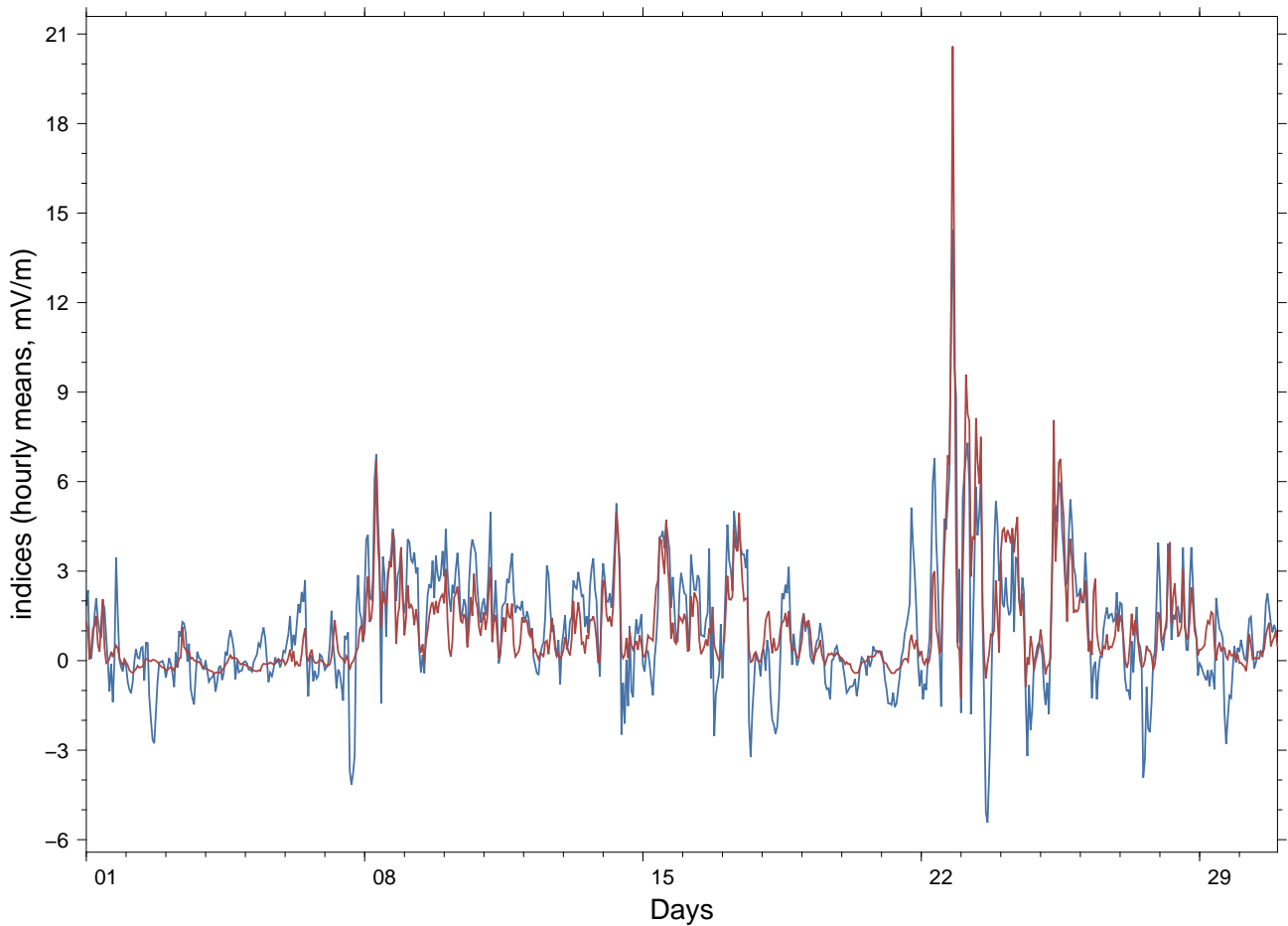
## 1.5 PC

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### PCN and PCS June 2015



## 1.6 *AE*

### ISGI Collaborating Institute:

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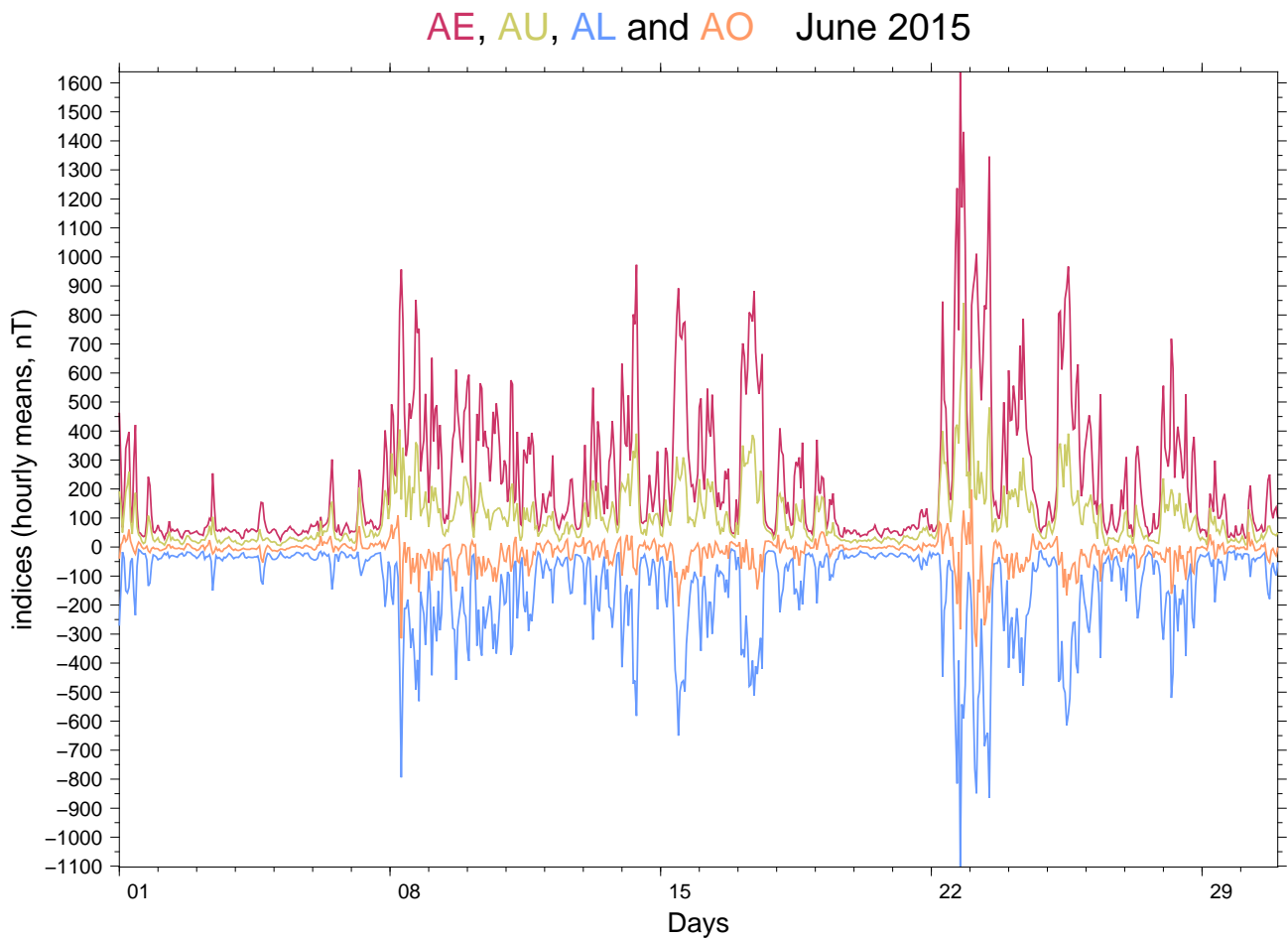
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## 2 IAGA Endorsed Geomagnetic Events (non-definitive values)

### 2.1 *SSC* and *SFE*

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#### SSC:

2015 06 12 13 07 A: NAG\*

B: LER\* ESK HAD\* SPT\* GUI

C: DOU EBR HYB

S: BDV

2015 06 21 16 43 A: LER\* ESK WNG NGK HAD SPT\* GUI GNG CNB

B: NUR DOU BDV GCK EBR

2015 06 22 05 45 A: DOU

B: LER ESK\* HAD\* HYB

C: VAL\* EBR SPT\*

2015 06 22 18 33 A: NUR LER\* ESK WNG\* NGK HAD BDV\* NAG\* GCK\* MMB\*  
SPT\* KAK\* KNY\* GUI HYB GNG CNB\*

B: VAL EBR

#### SFE:

2015 06 21 0941-0950 LER ESK WNG NGK HAD BDV EBR SPT

## 2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2015-06-01	13	-	C	6	
2015-06-02	5	C	C	2	Q3
2015-06-03	7	C	C	3	Q5
2015-06-04	6	C	C	2	Q4
2015-06-05	5	C	C	2	Q2
2015-06-06	9	C	C	4	Q7
2015-06-07	12	C	-	7	
2015-06-08	65	-	-	36	D3
2015-06-09	25	-	-	14	
2015-06-10	24	-	-	11	
2015-06-11	18	-	-	9	
2015-06-12	14	-	-	6	Q10
2015-06-13	18	-	-	8	
2015-06-14	27	-	-	17	D5*
2015-06-15	28	-	-	12	
2015-06-16	19	-	-	10	
2015-06-17	22	-	-	14	
2015-06-18	14	-	-	6	
2015-06-19	7	C	C	3	Q6
2015-06-20	6	C	C	1	Q1
2015-06-21	16	-	-	7	
2015-06-22	88	-	-	57	D2
2015-06-23	64	-	-	72	D1
2015-06-24	28	-	-	16	
2015-06-25	50	-	-	32	D4
2015-06-26	16	-	-	8	
2015-06-27	16	-	-	8	
2015-06-28	23	-	-	13	
2015-06-29	9	C	-	4	Q8
2015-06-30	11	C	C	5	Q9



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