
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

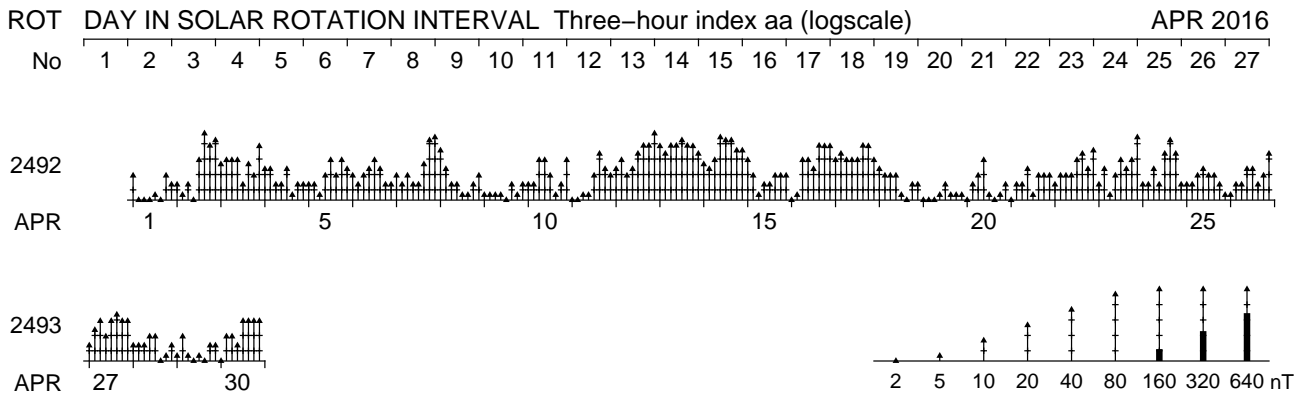
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1.2 *am*

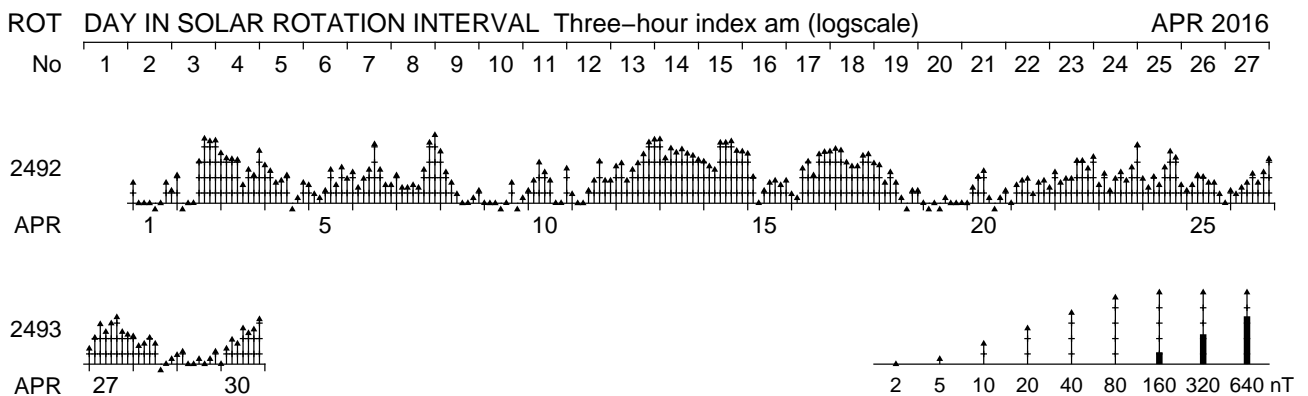
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1.3 K_p

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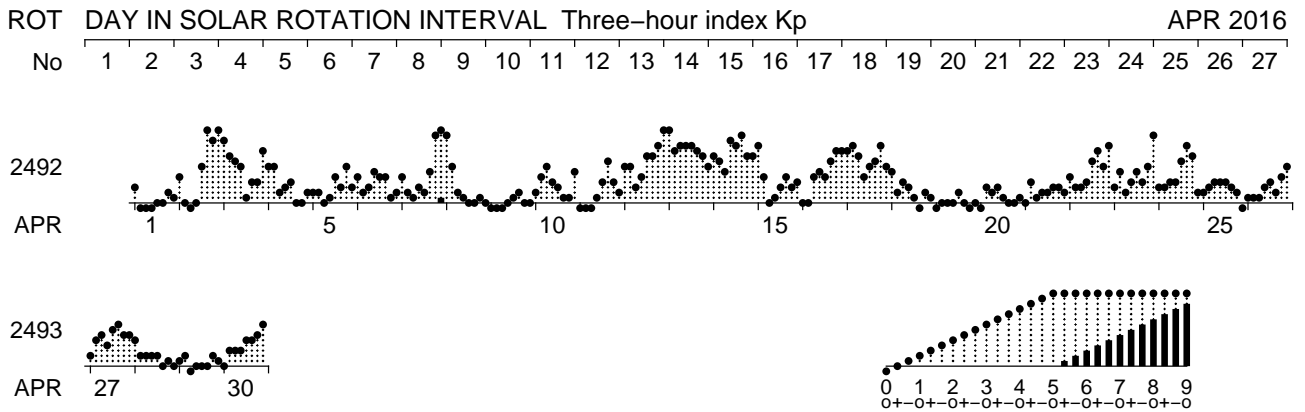
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1.4 *Dst*

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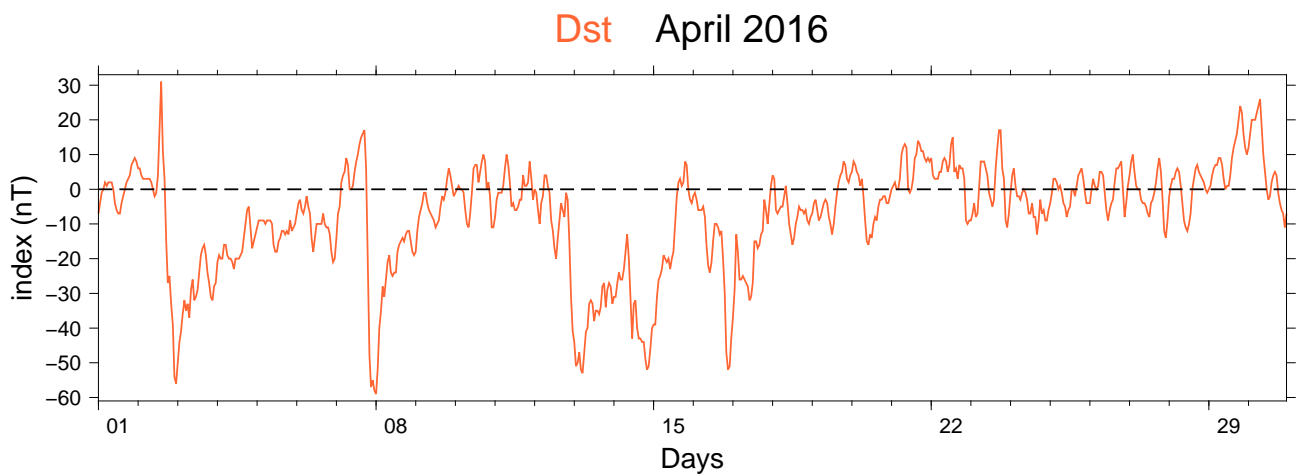
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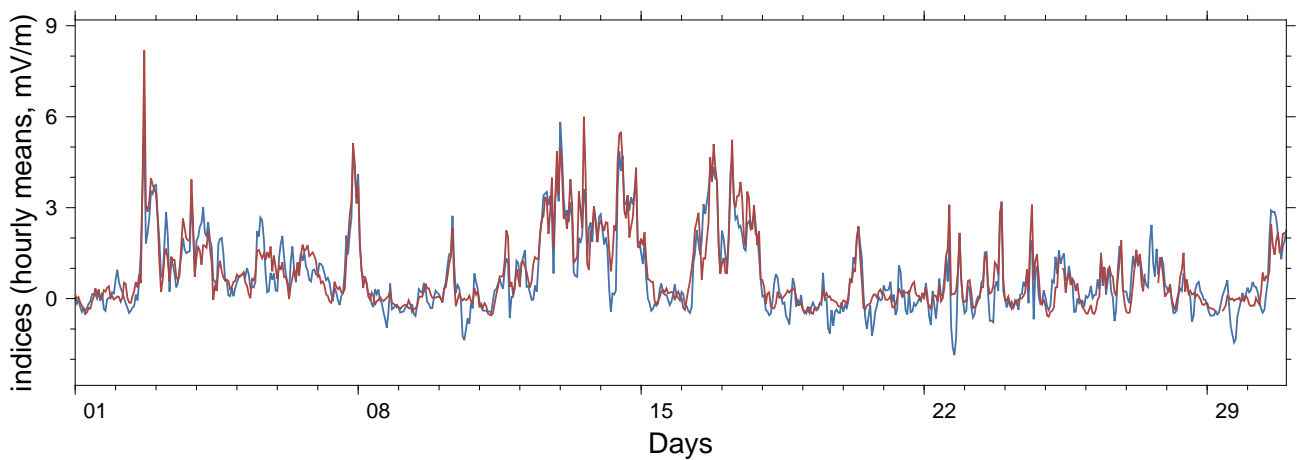
1.5 PC

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PCN and PCS April 2016



1.6 *AE*

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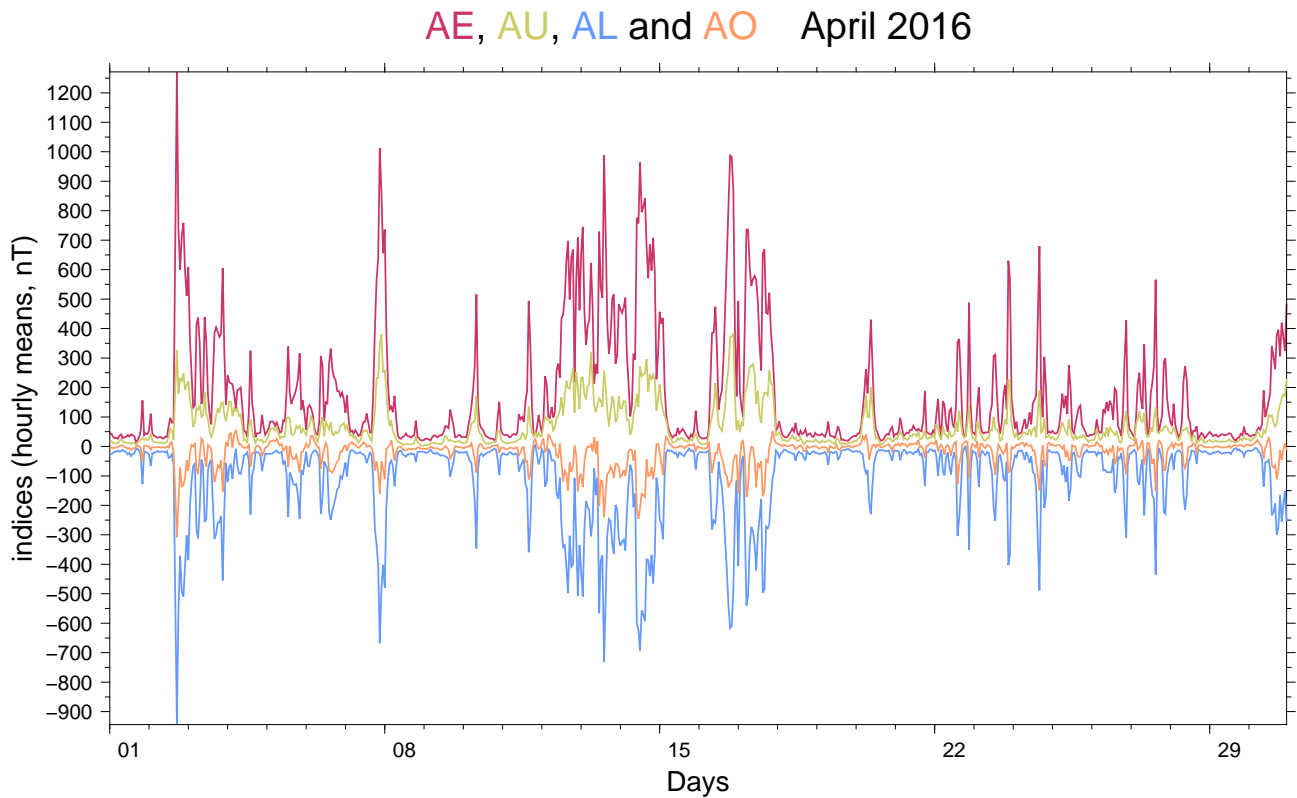
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2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

2016 04 02 14 31 B: LER* ESK* HAD*
C: VAL* DOU SPT*

2016 04 07 17 10 B: LER* ESK* HAD*
C: VAL* HRB SPT*

2016 04 14 07 35 B: NUR
C: DOU MMB KAK KNY
Si LER* ESK* HAD*

2016 04 30 04 24 C: LER* ESK* HAD* EBR SPT* HYB GNG LIV

SFE:

2016 04 18 0020-0055 MMB KAK KNY

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2016-04-01	6	C	C	2	Q4
2016-04-02	29	-	-	19	D5*
2016-04-03	22	-	-	14	
2016-04-04	11	C	-	6	
2016-04-05	14	-	C	5	
2016-04-06	13	-	-	6	
2016-04-07	24	-	-	17	
2016-04-08	12	K	-	8	
2016-04-09	5	C	C	2	Q2
2016-04-10	14	-	K	6	
2016-04-11	11	K	-	4	Q10K
2016-04-12	34	-	-	18	D3*
2016-04-13	44	-	-	25	D1
2016-04-14	40	-	-	22	D2
2016-04-15	12	C	-	8	
2016-04-16	26	-	-	11	
2016-04-17	30	-	-	18	D4*
2016-04-18	9	C	-	4	Q9
2016-04-19	4	C	C	2	Q1
2016-04-20	8	C	C	3	Q5
2016-04-21	9	C	C	4	Q7
2016-04-22	19	-	-	12	
2016-04-23	22	-	-	11	
2016-04-24	21	-	-	11	
2016-04-25	10	C	-	4	Q8
2016-04-26	13	-	-	5	
2016-04-27	21	-	-	9	
2016-04-28	8	C	K	4	Q6
2016-04-29	6	C	C	2	Q3
2016-04-30	16	-	-	7	

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