
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

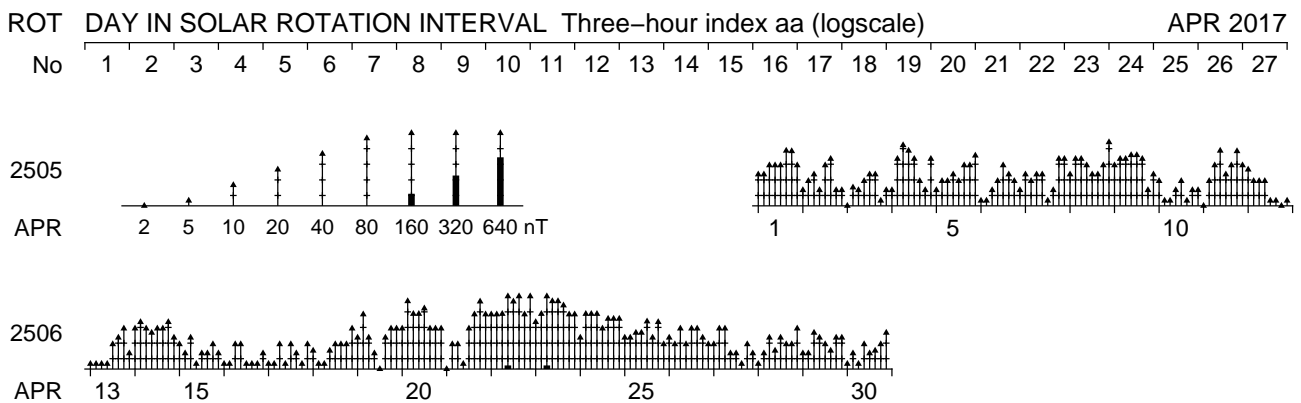
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1.2 *am*

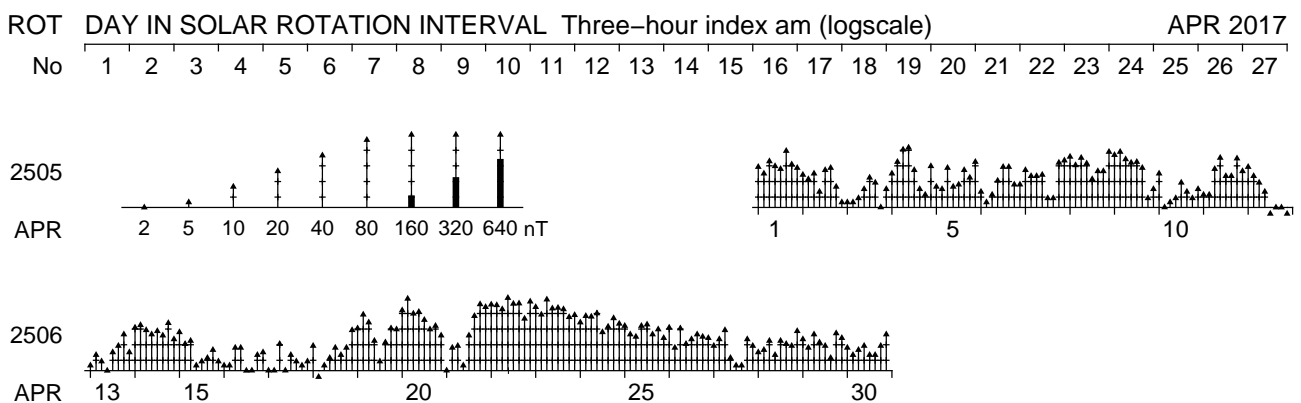
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1.3 K_p

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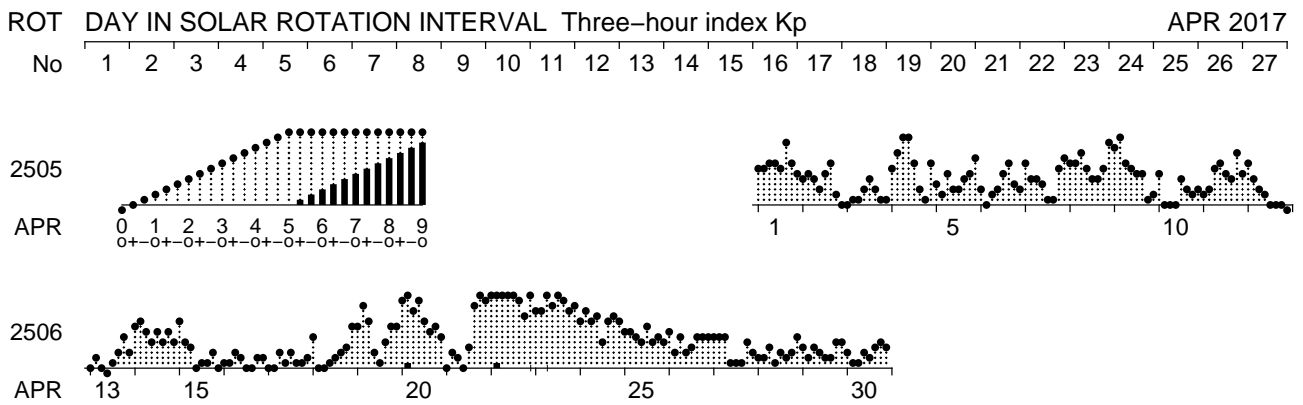
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1.4 *Dst*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

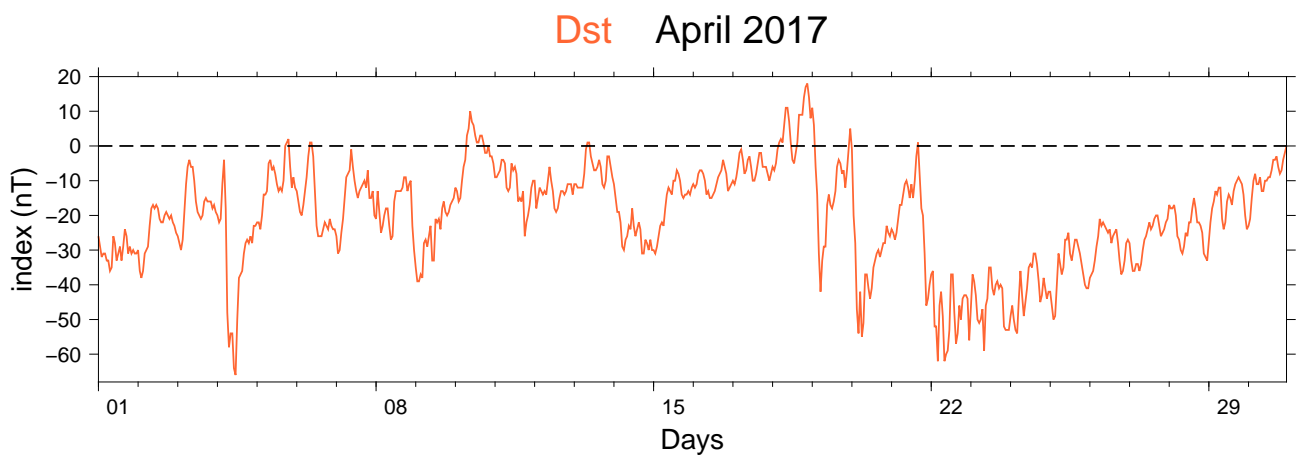
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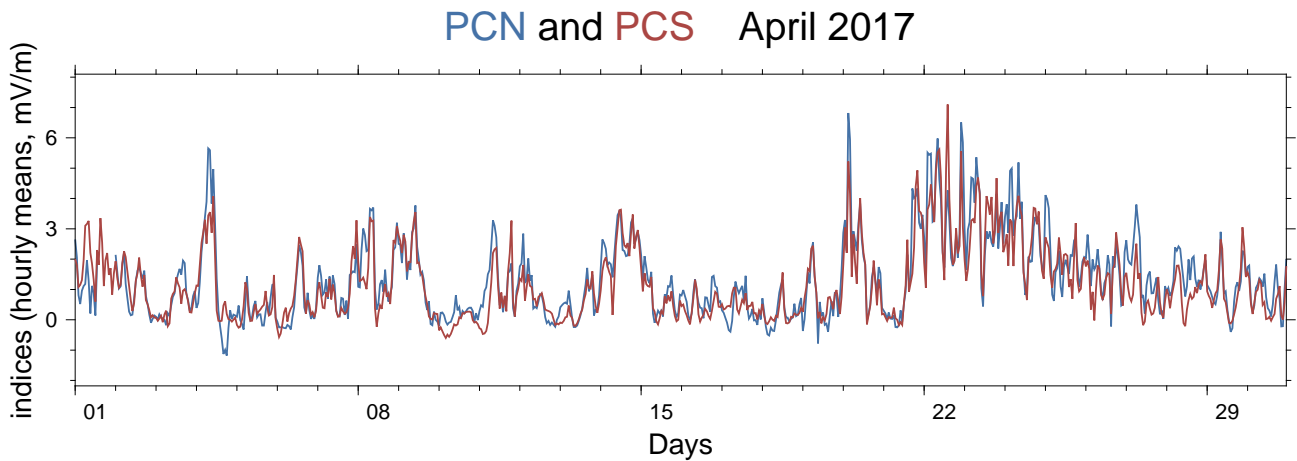


1.5 PC

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1.6 *AE*

ISGI Collaborating Institute:

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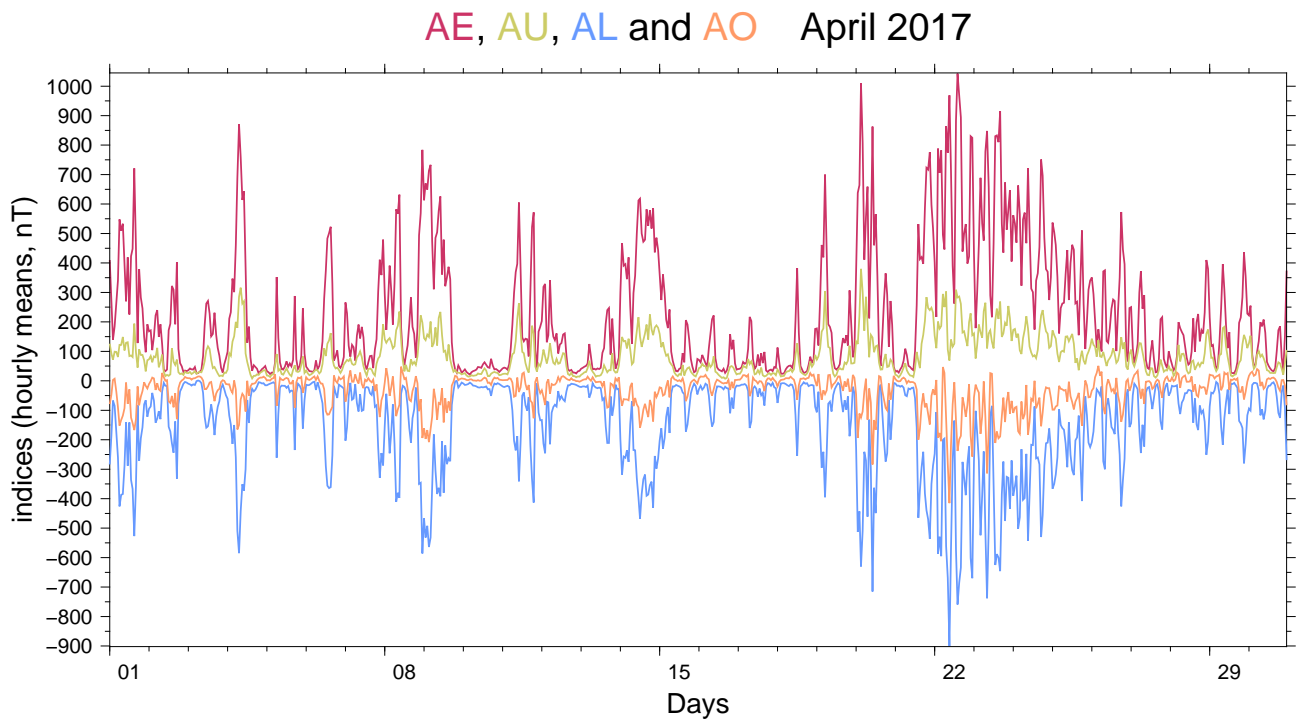
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2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

2017 04 18 16:04 A: WNG* NGK*
B: LER* ESK* HAD*
C: SOD* VAL

2017 04 21 15:19 B: LER* ESK* HAD* SPT GUI HYB
C: VAL* GCK MMB EBR KAK KNY

SFE:

2017 04 01 21:39-22:20 MMB KAK KNY
2017 04 02 02:43-02:55 MMB KAK KNY
2017 04 02 07:53-08:20 WNG NGK KNY
2017 04 02 20:28-20:45 MMB
2017 04 03 00:58-01:20 MMB KAK KNY
2017 04 03 14:22-14:38 HAD SPT

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2017-04-01	27	-	-	15	
2017-04-02	15	-	-	7	
2017-04-03	10	C	-	4	Q3
2017-04-04	29	-	-	19	D4*
2017-04-05	18	-	-	8	
2017-04-06	11	C	-	6	
2017-04-07	17	-	-	9	
2017-04-08	28	-	-	15	
2017-04-09	28	-	-	15	
2017-04-10	8	C	-	4	Q5
2017-04-11	24	-	-	10	
2017-04-12	9	C	-	5	Q8K
2017-04-13	10	C	K	4	Q4
2017-04-14	25	-	-	11	
2017-04-15	10	C	-	6	
2017-04-16	7	C	C	3	Q1
2017-04-17	8	C	C	3	Q2
2017-04-18	11	C	-	6	Q10K
2017-04-19	19	-	-	14	
2017-04-20	41	-	-	28	D3
2017-04-21	28	-	-	17	
2017-04-22	73	-	-	47	D1
2017-04-23	64	-	-	36	D2
2017-04-24	36	-	-	19	D5*
2017-04-25	21	-	-	10	
2017-04-26	18	-	-	8	
2017-04-27	13	-	-	6	
2017-04-28	13	-	C	5	Q7
2017-04-29	13	-	C	5	Q9
2017-04-30	10	C	C	5	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 ($Ap < 20 \text{ nT}$).