
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

MONTHLY BULLETIN MAY 2017

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

ISGI Collaborating Institute:

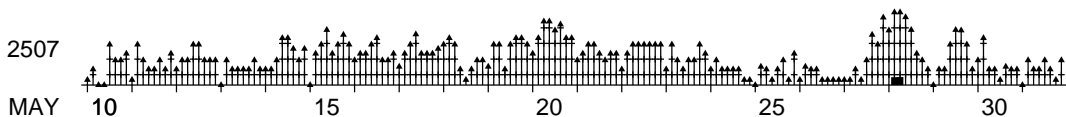
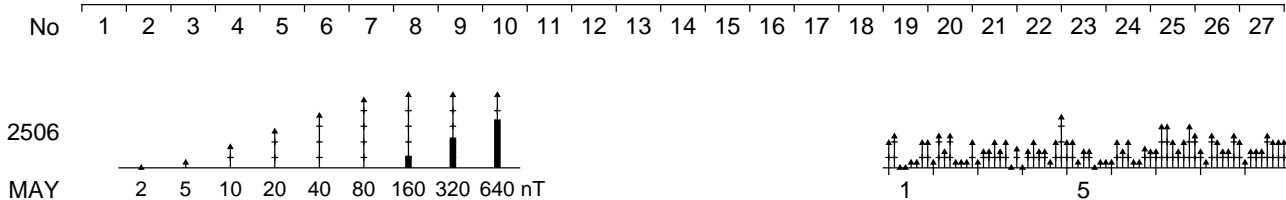
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ROT DAY IN SOLAR ROTATION INTERVAL Three-hour index *aa* (logscale) MAY 2017



1.2 *am*

ISGI Collaborating Institute:

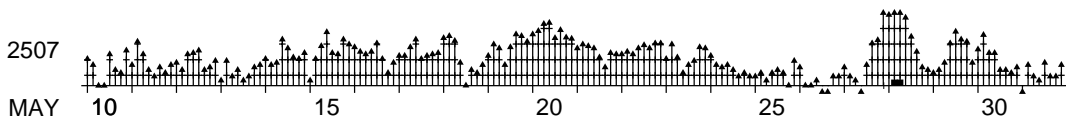
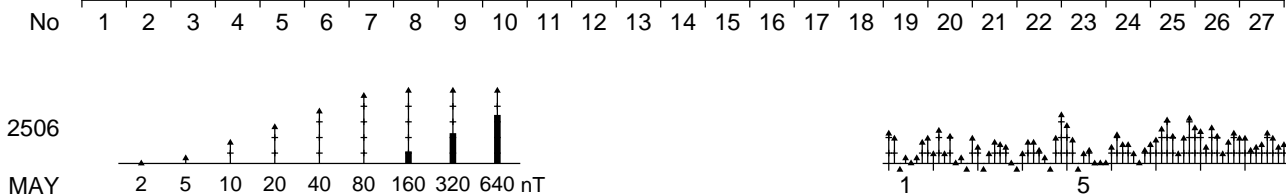
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ROT DAY IN SOLAR ROTATION INTERVAL Three-hour index *am* (logscale) MAY 2017



1.3 K_p

ISGI Collaborating Institute:

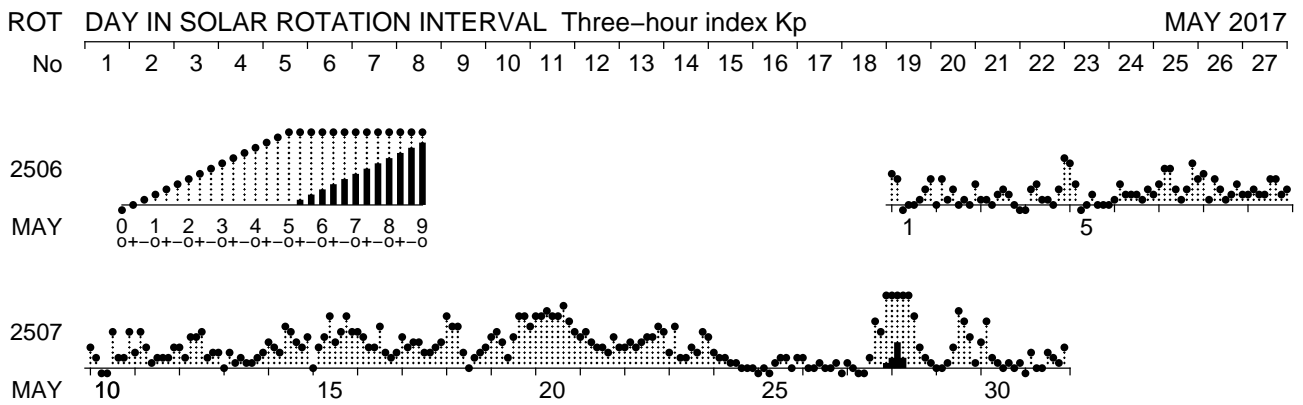
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1.4 *Dst*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

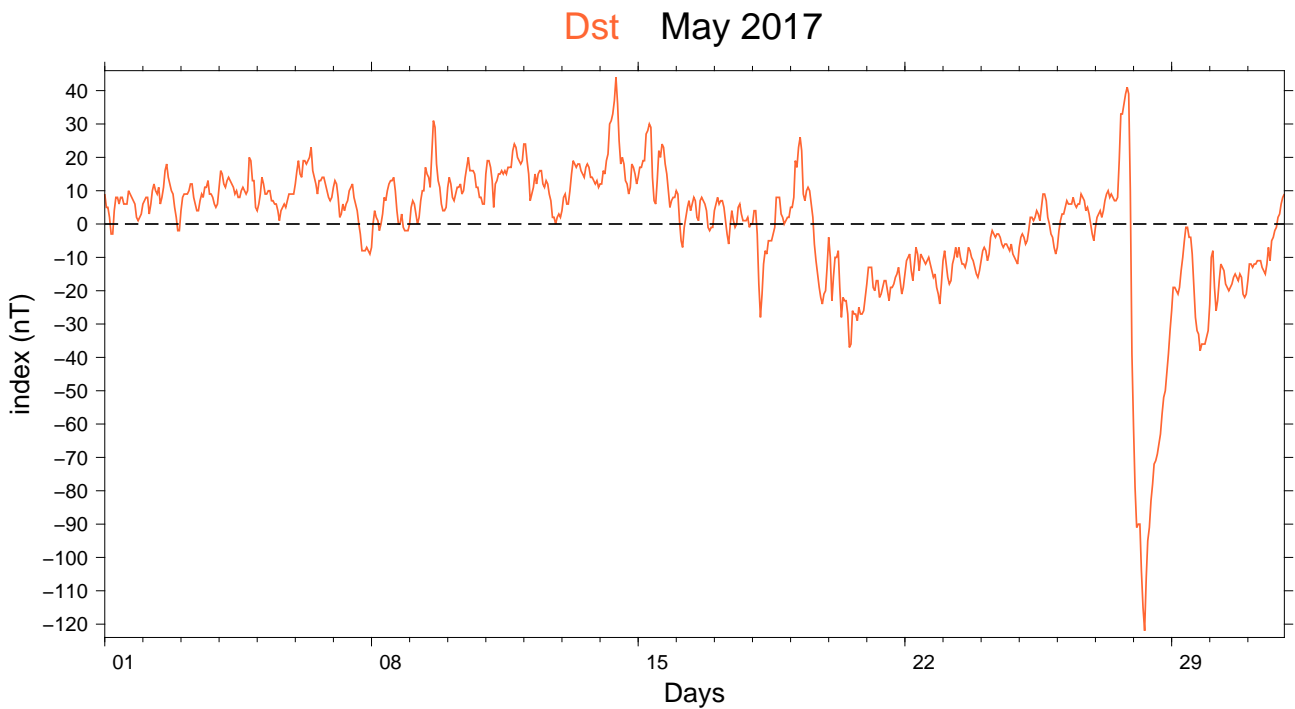
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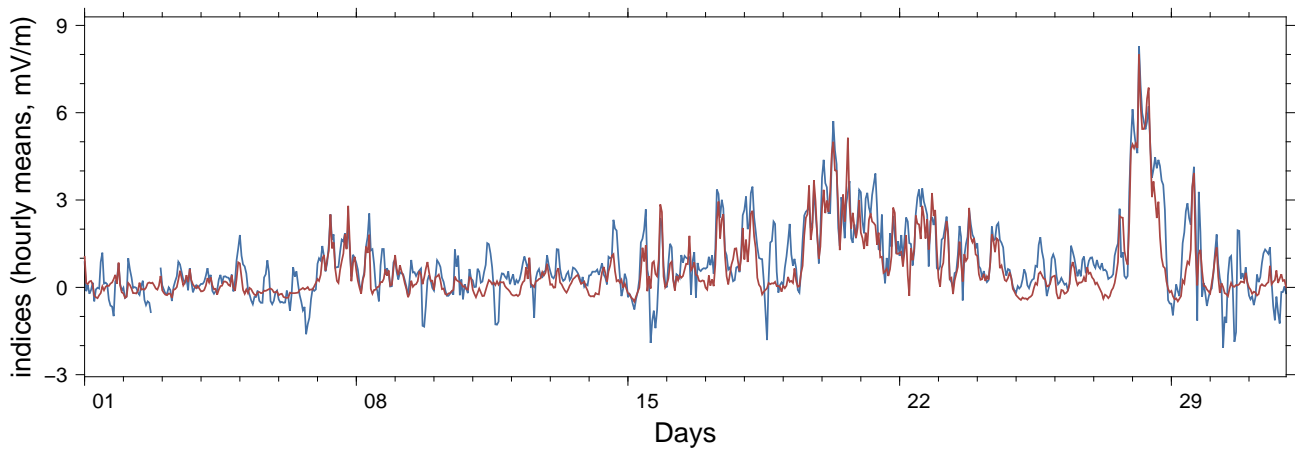
1.5 PC

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PCN and PCS May 2017



1.6 *AE*

ISGI Collaborating Institute:

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Data Analysis Center for Geomagnetism and Space Magnetism

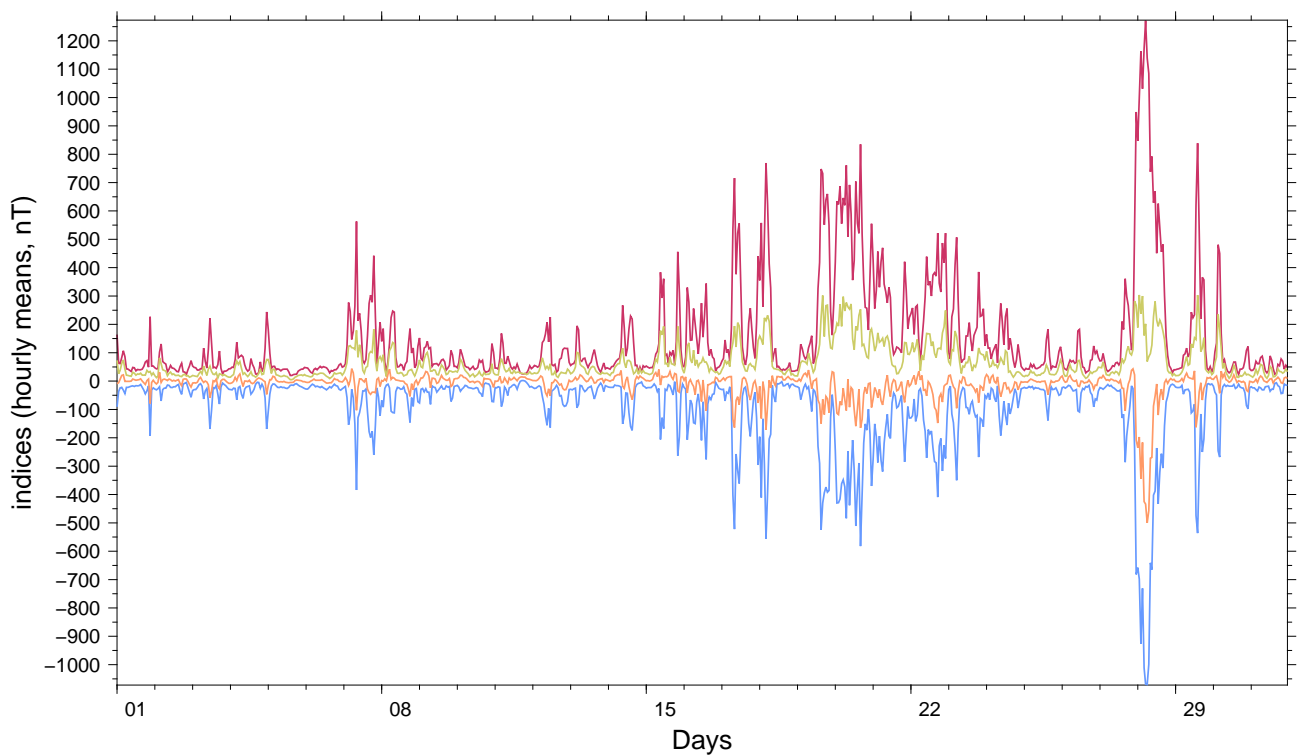
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AE, AU, AL and AO May 2017



2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

2017 05 04 18:51 A: GUI

2017 05 04 21:24 B: LER* ESK HAD* CNB
C: BDV NAG GNG

2017 05 27 15:34 A: LER* ESK* WNG* NGK* HAD* NAG SPT* GUI
B: BDV HRB HYB
C: VAL* DOU GCK MMB* EBR KAK KNY

SFE:

NONE

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2017-05-01	8	C	C	4	Q10
2017-05-02	9	C	C	4	Q8
2017-05-03	8	C	C	3	Q3
2017-05-04	12	K	K	5	
2017-05-05	7	C	K	4	Q9K
2017-05-06	8	C	C	4	Q7
2017-05-07	16	-	K	8	
2017-05-08	11	C	C	5	
2017-05-09	10	C	C	5	
2017-05-10	10	C	C	5	
2017-05-11	12	C	-	6	
2017-05-12	15	-	C	7	
2017-05-13	8	C	K	4	Q5
2017-05-14	18	-	-	8	
2017-05-15	24	-	-	12	D4*
2017-05-16	18	-	-	8	
2017-05-17	19	-	-	6	
2017-05-18	16	-	-	9	
2017-05-19	22	-	-	12	D3*
2017-05-20	44	-	-	22	D2
2017-05-21	17	-	-	8	
2017-05-22	21	-	-	9	
2017-05-23	15	-	-	8	
2017-05-24	8	C	C	3	Q4
2017-05-25	8	C	C	2	Q2
2017-05-26	6	C	C	2	Q1
2017-05-27	22	-	-	13	D5*
2017-05-28	60	-	-	47	D1
2017-05-29	21	-	-	9	
2017-05-30	11	K	-	5	
2017-05-31	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 ($Ap < 20 \text{ nT}$).