
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

MONTHLY BULLETIN JULY 2017

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Contents

1	IAGA Endorsed Geomagnetic Indices (non-definitive values)	2
1.1	<i>aa</i>	2
1.2	<i>am</i>	2
1.3	<i>Kp</i>	4
1.4	<i>Dst</i>	5
1.5	<i>PC</i>	6
1.6	<i>AE</i>	7
2	IAGA Endorsed Geomagnetic Events (non-definitive values)	8
2.1	<i>SC (SSC/SI)</i> and <i>SFE</i>	8
2.2	Classification of days	9
2.2.1	Truly magnetically very quiet (C) and quiet (K) periods (from <i>aa</i>)	10
2.2.2	10 international quietest days (Q1-10) and 5 most disturbed days (D1-5)	10

1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

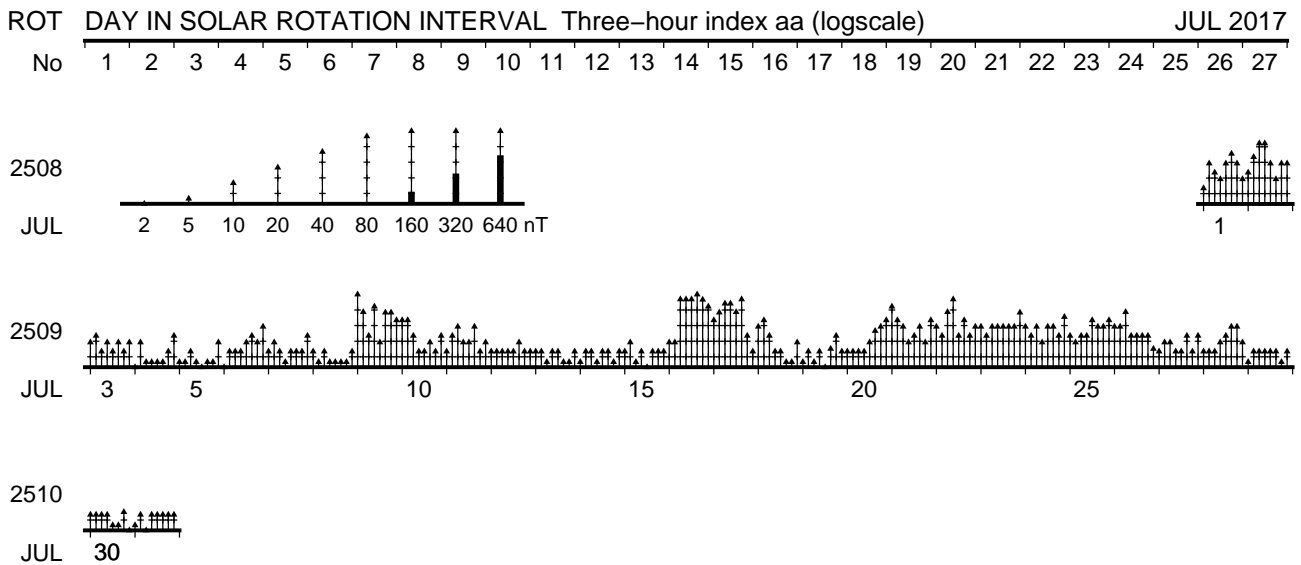
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1.2 *am*

ISGI Collaborating Institute:

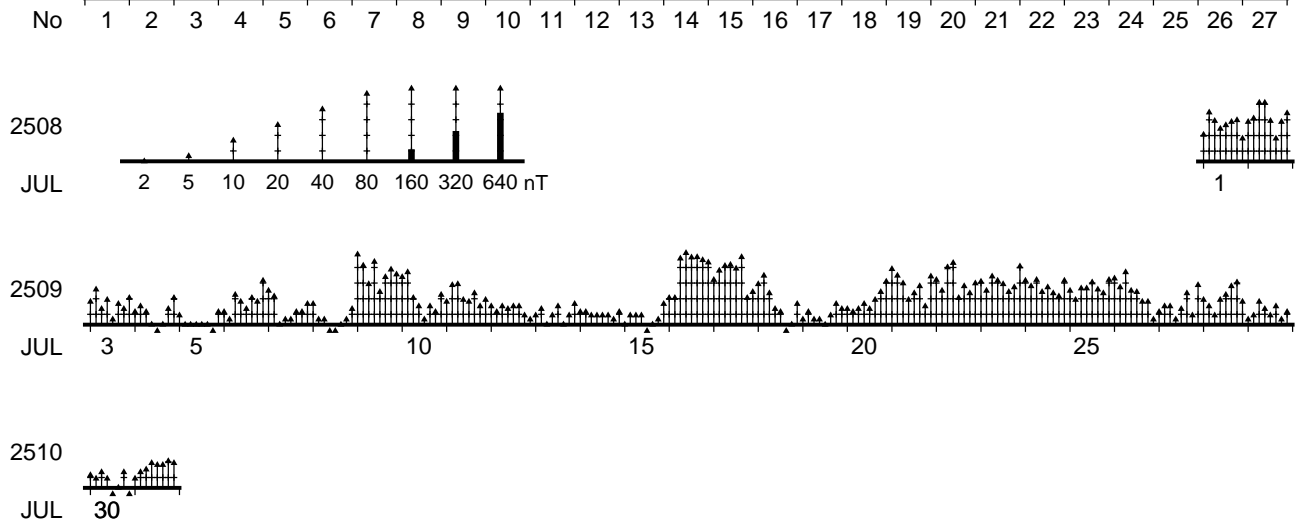
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ROT DAY IN SOLAR ROTATION INTERVAL Three-hour index am (logscale) JUL 2017



1.3 K_p

ISGI Collaborating Institute:

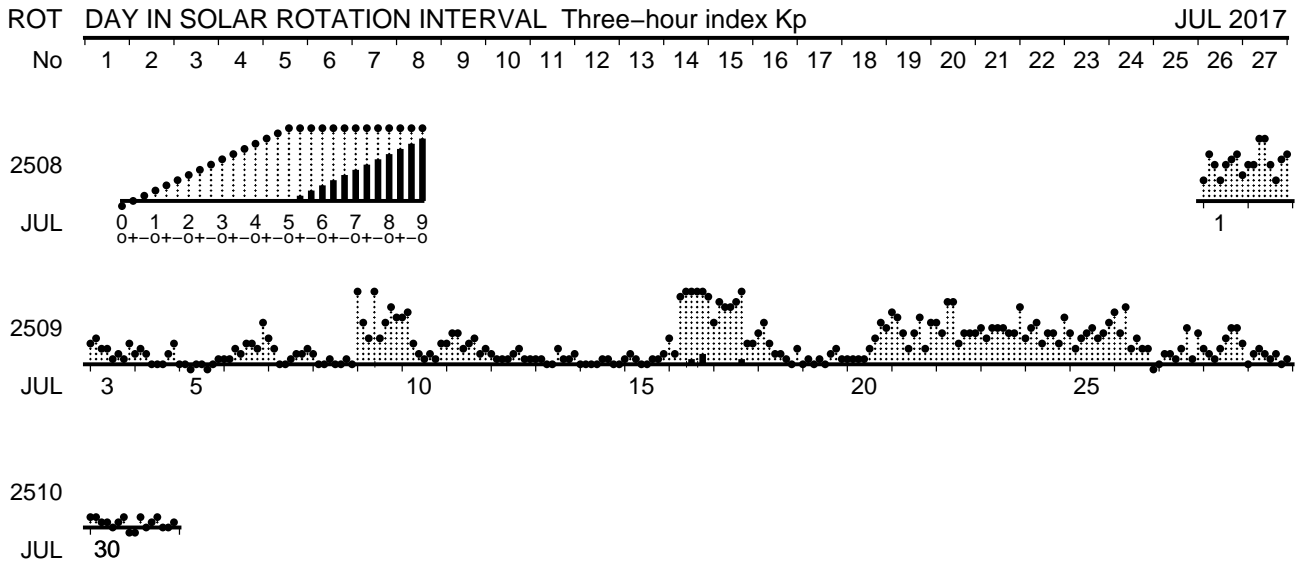
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1.4 *Dst*

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World Data Center for Geomagnetism, Kyoto

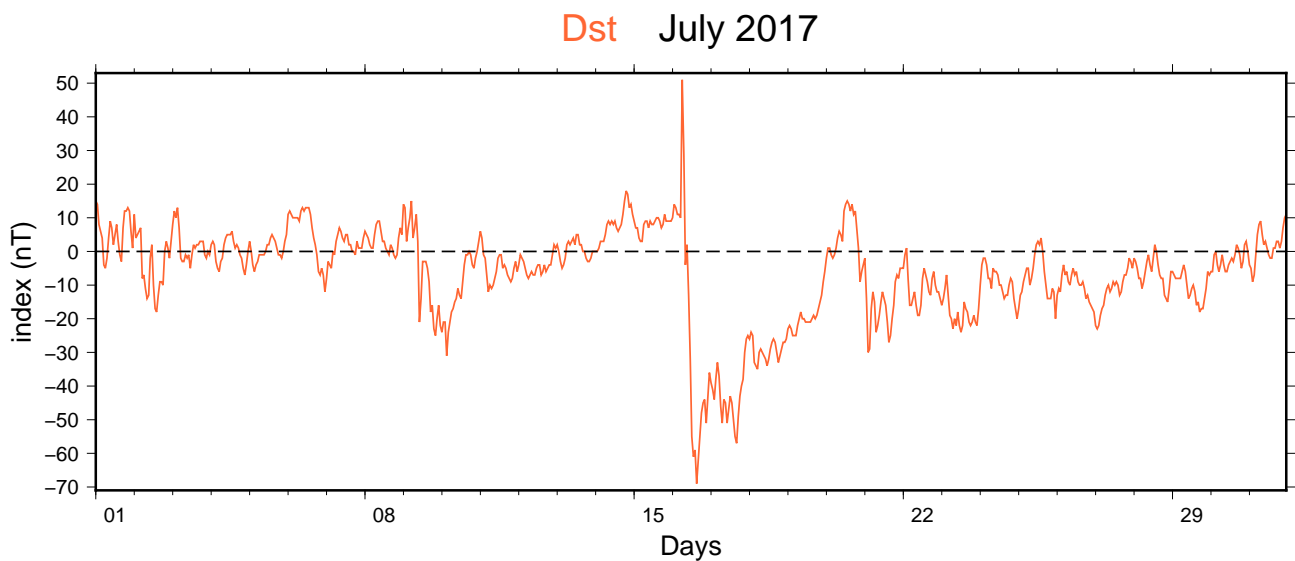
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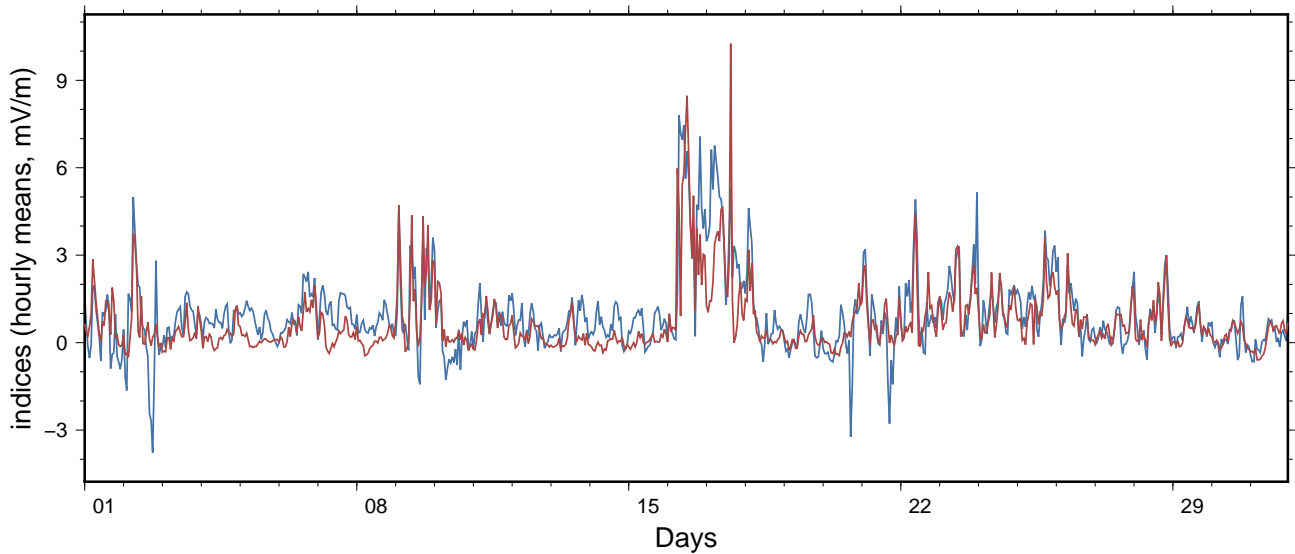
1.5 PC

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PCN and PCS July 2017



1.6 *AE*

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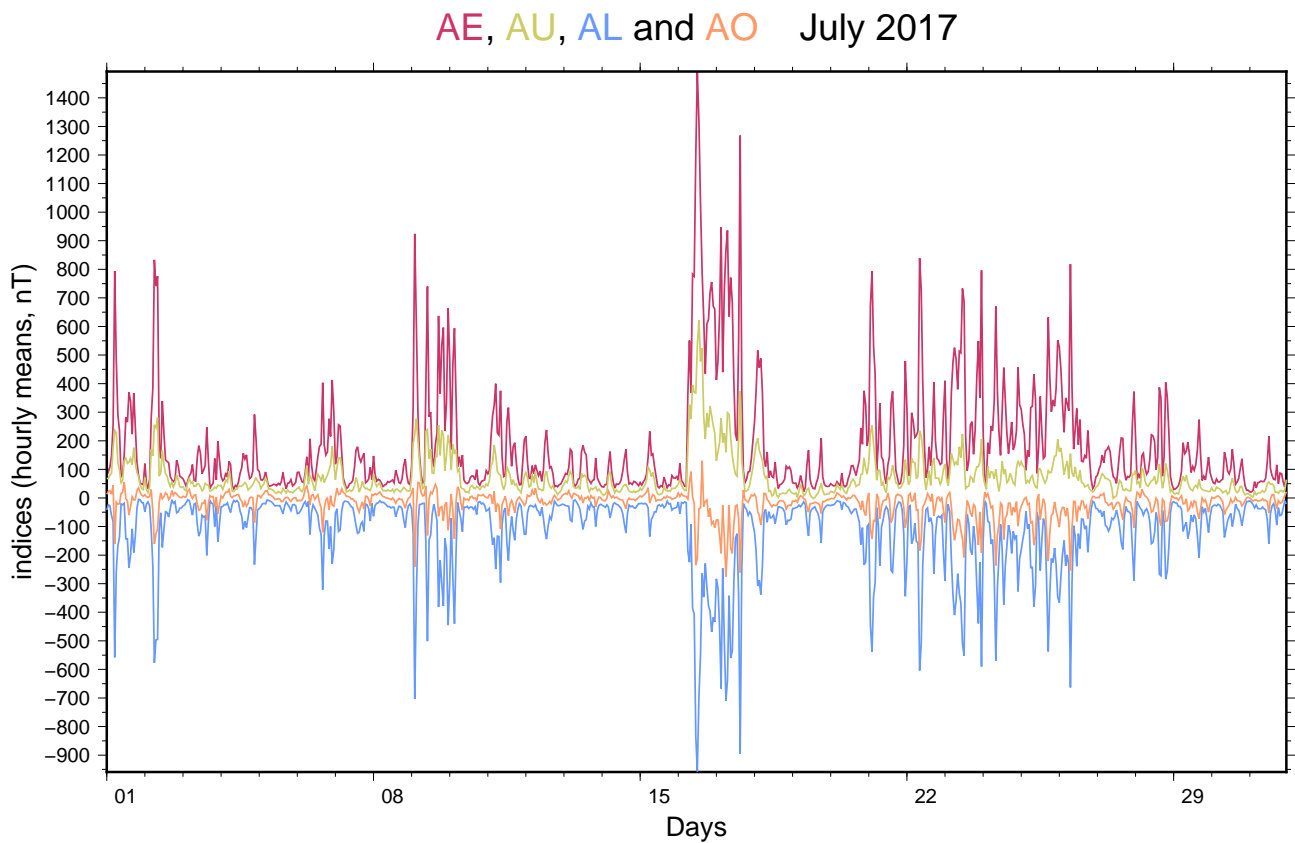
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2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 SC (SSC/SI) and SFE

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SC:

2017 07 01 17 11 B: LER ESK HAD EBR SPT

2017 07 09 00 10 A: WNG* NGK*

B: HRB

C: VAL* BDV EBR

2017 07 16 05 59 A: SOD LER* ESK* WNG* NGK* HAD* DOU HRB NAG* MMB* EBR
SPT* KAK KNY HYB CNB*

B: BDV

C: VAL* GCK

SFE:

NONE

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2017-07-01	20	-	-	12	
2017-07-02	31	-	-	17	D4*
2017-07-03	11	C	K	5	
2017-07-04	7	C	C	4	
2017-07-05	6	C	C	2	Q1
2017-07-06	11	C	C	6	
2017-07-07	9	C	C	4	
2017-07-08	6	C	-	2	Q3
2017-07-09	45	-	-	24	D3
2017-07-10	17	-	-	8	
2017-07-11	15	-	-	6	
2017-07-12	9	C	C	4	Q10
2017-07-13	7	C	C	3	Q8
2017-07-14	7	C	C	2	Q2
2017-07-15	7	C	-	3	Q5
2017-07-16	64	-	-	44	D1
2017-07-17	45	-	-	26	D2
2017-07-18	14	-	K	6	
2017-07-19	8	C	C	3	Q7
2017-07-20	15	-	-	6	
2017-07-21	26	-	-	13	
2017-07-22	32	-	-	15	D5*
2017-07-23	26	-	-	12	
2017-07-24	22	-	-	10	
2017-07-25	22	-	-	9	
2017-07-26	21	-	-	10	
2017-07-27	11	C	C	5	
2017-07-28	14	-	-	7	
2017-07-29	7	C	C	3	Q9
2017-07-30	7	C	C	3	Q6
2017-07-31	7	C	C	2	Q4

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