
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

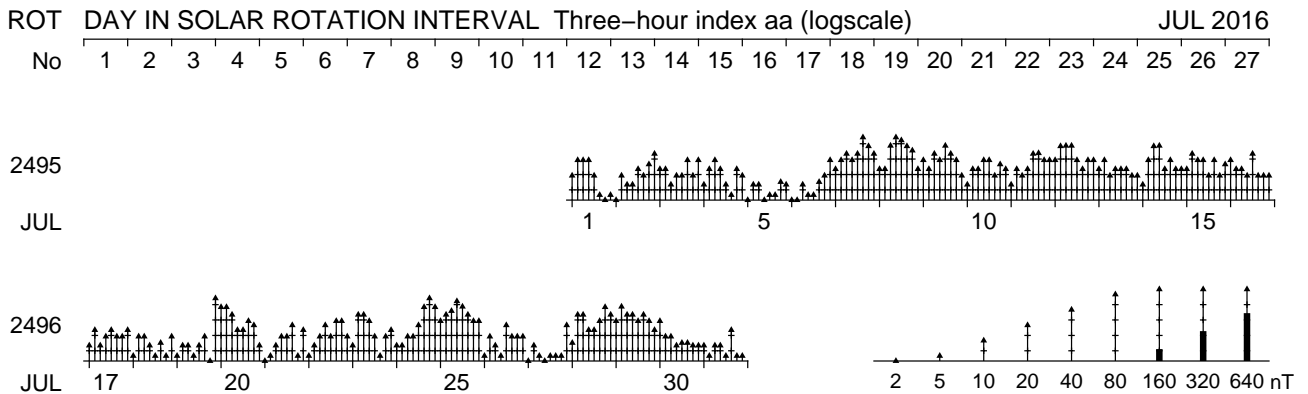
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1.2 *am*

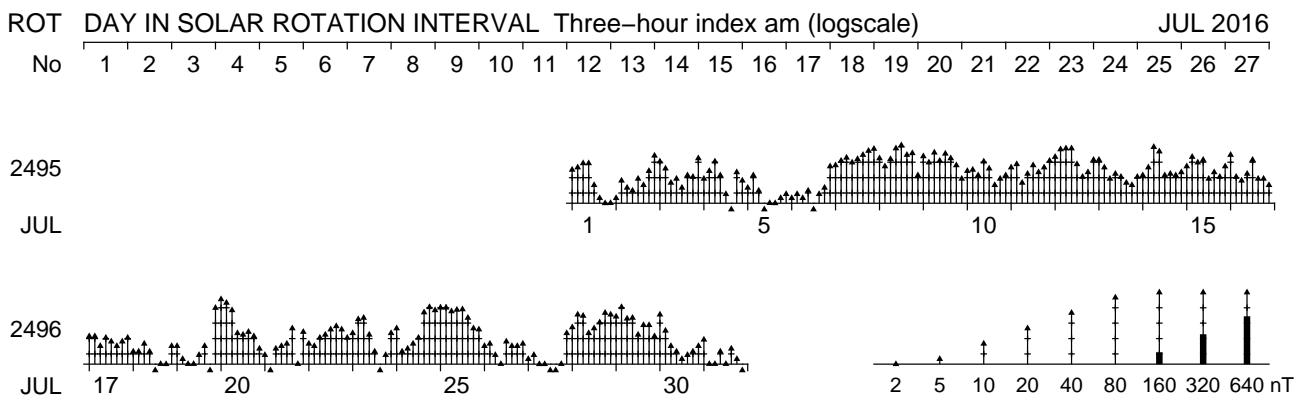
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1.3 K_p

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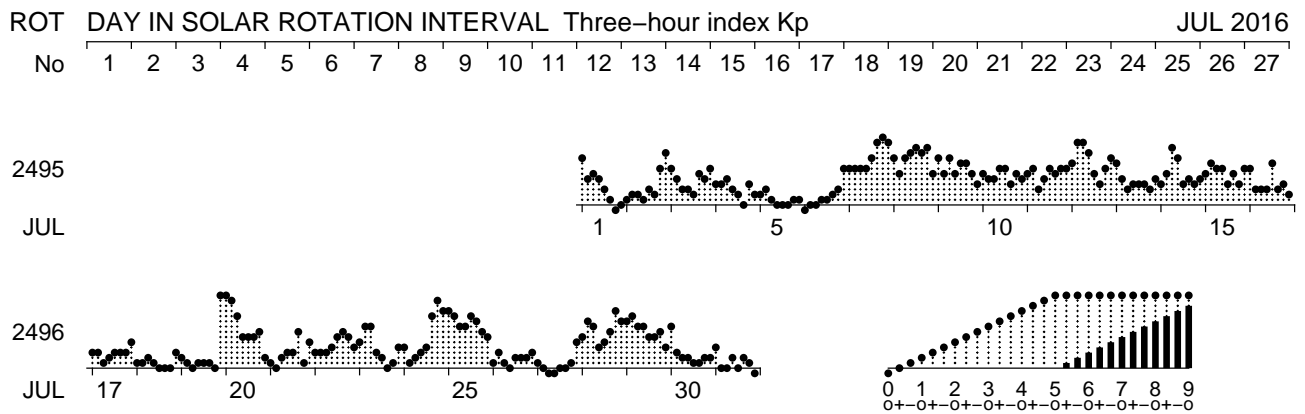
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1.4 *Dst*

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World Data Center for Geomagnetism, Kyoto

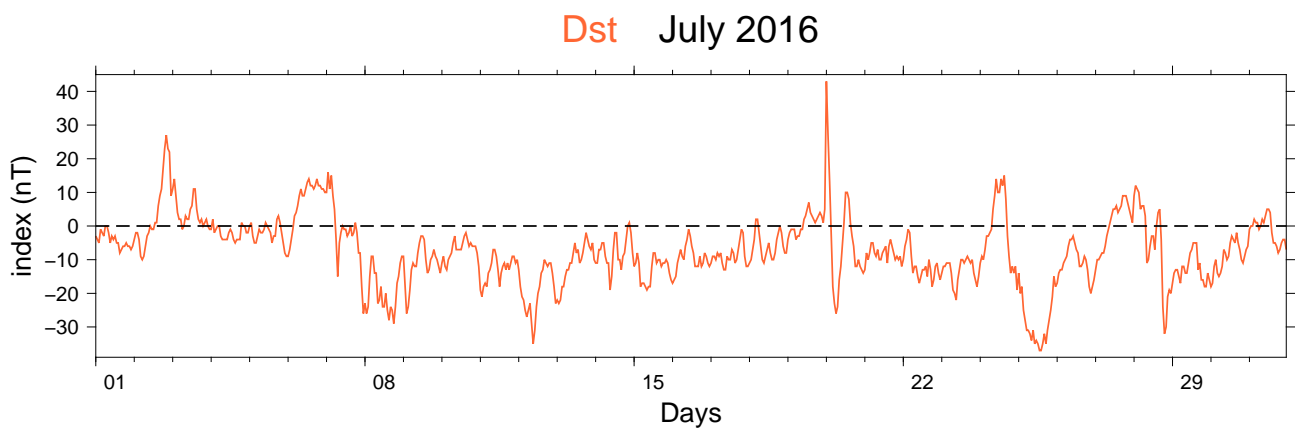
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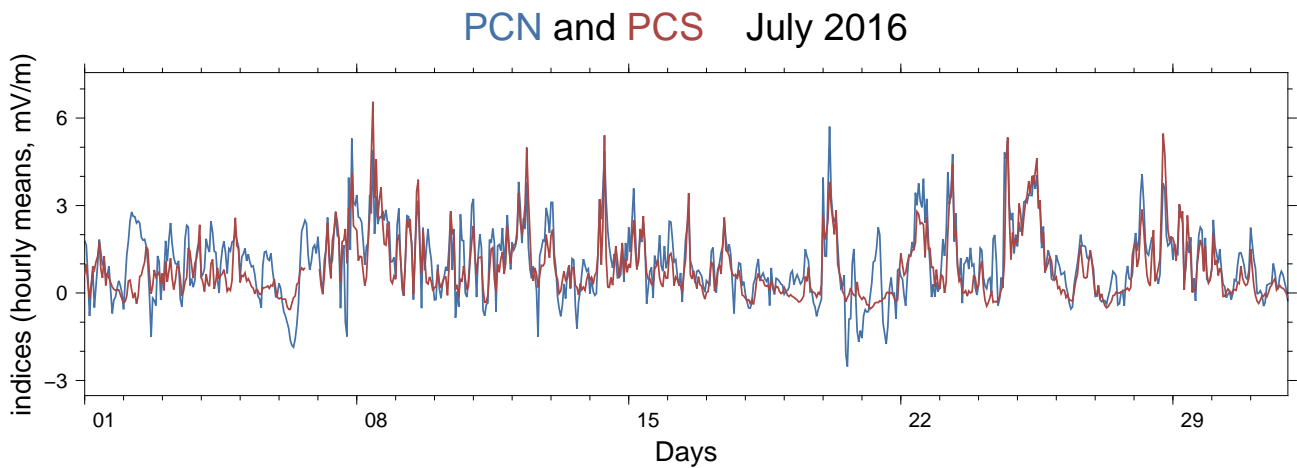


1.5 PC

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1.6 *AE*

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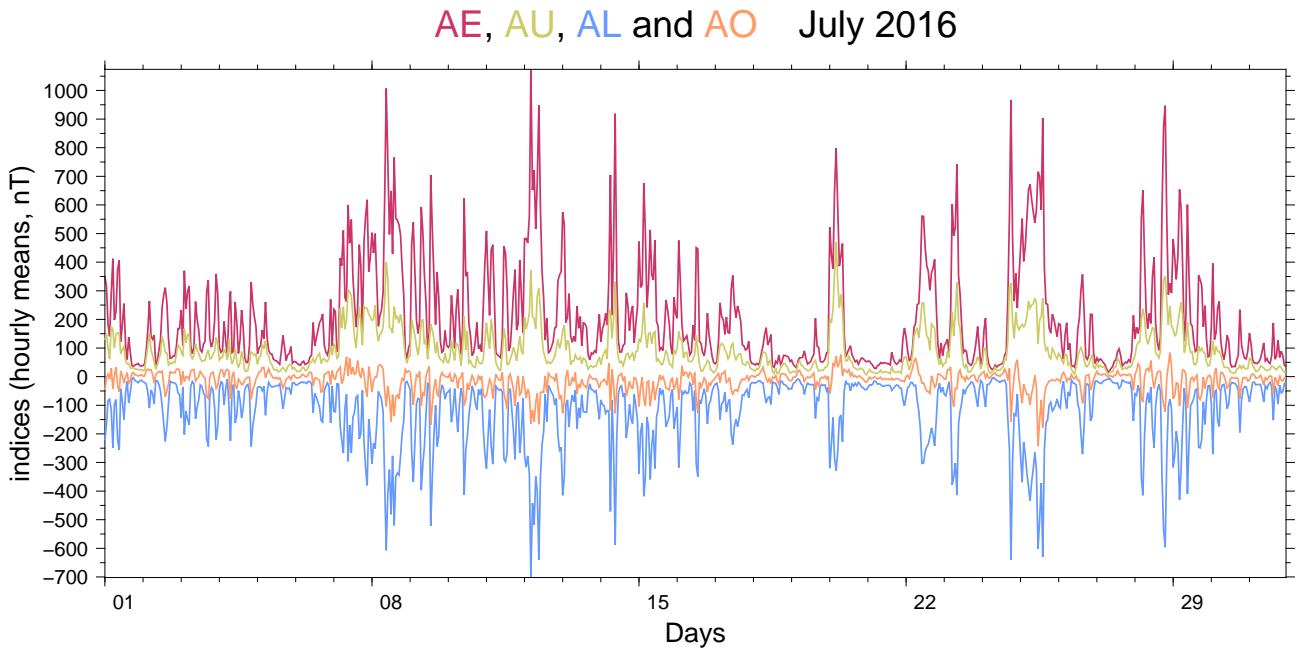
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2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

2016 07 19 23 51 A: NUR LER* ESK* WNG* NGK* HAD* BDV* HRB* NAG* EBR GUI
 GNG CNB LIV*
 C: VAL* GCK*

2016 07 24 15 25 B: LER ESK HAD SPT
 C: HYB GNG

SFE:

2016 07 21 1117-1123 ESK HAD
 2016 07 23 0154-0238 MMB KAK KNY
 2016 07 23 0509-0544 MMB KAK KNY
 2016 07 24 0610-0654 MMB KAK KNY

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2016-07-01	14	-	-	6	
2016-07-02	14	-	C	7	
2016-07-03	16	-	-	8	
2016-07-04	13	-	K	5	Q9
2016-07-05	6	C	C	3	Q1
2016-07-06	8	C	K	4	Q6
2016-07-07	34	-	-	21	D1
2016-07-08	38	-	-	19	D2*
2016-07-09	26	-	-	12	
2016-07-10	17	-	-	9	
2016-07-11	21	-	-	10	
2016-07-12	31	-	-	18	D4*
2016-07-13	16	-	-	7	
2016-07-14	24	-	-	11	
2016-07-15	21	-	-	10	
2016-07-16	17	-	-	7	
2016-07-17	13	-	-	5	Q7
2016-07-18	9	C	C	3	Q2
2016-07-19	14	-	-	8	
2016-07-20	26	-	-	19	D3*
2016-07-21	10	C	C	5	Q10
2016-07-22	15	-	-	7	
2016-07-23	18	-	-	7	
2016-07-24	27	-	-	14	
2016-07-25	35	-	-	18	D5*
2016-07-26	11	C	-	4	Q5
2016-07-27	7	C	K	2	Q3
2016-07-28	26	-	-	14	
2016-07-29	29	-	-	13	
2016-07-30	11	C	-	5	Q8K
2016-07-31	8	C	C	3	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 ($Ap < 20 \text{ nT}$).