
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

MONTHLY BULLETIN OCTOBER 2017

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

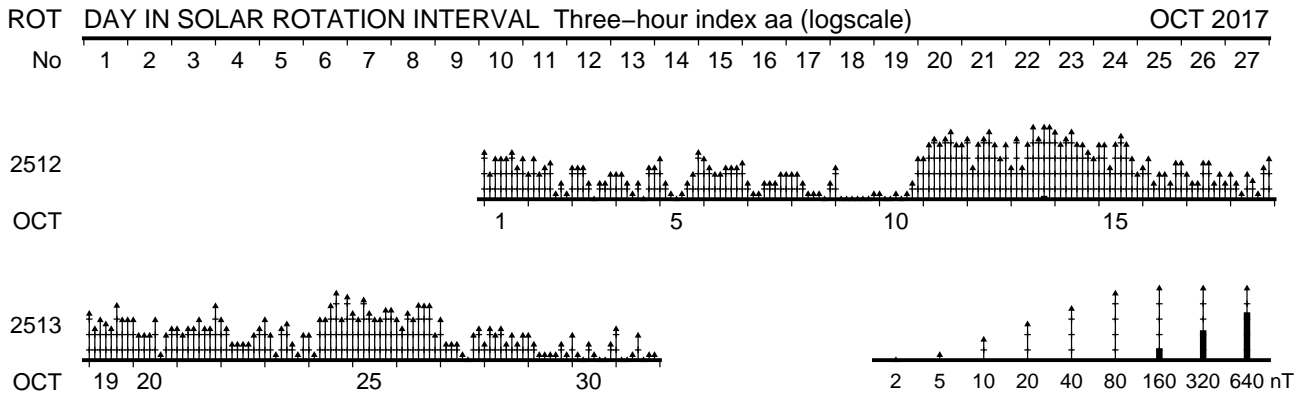
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1.2 *am*

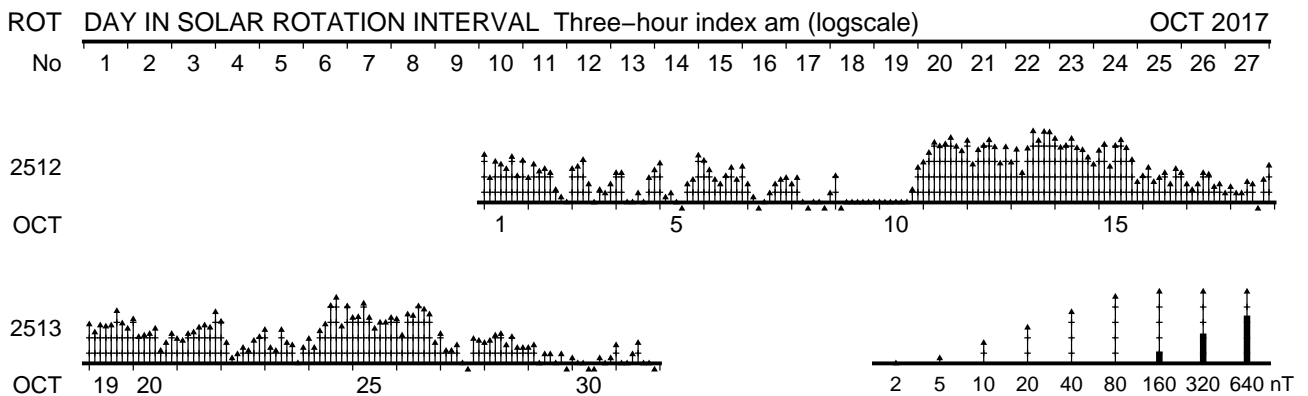
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1.3 K_p

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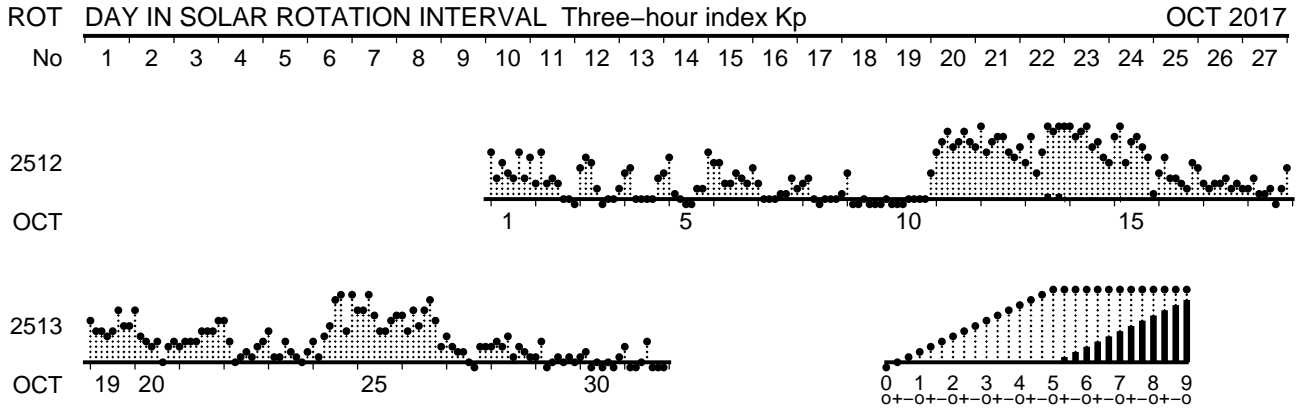
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1.4 *Dst*

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World Data Center for Geomagnetism, Kyoto

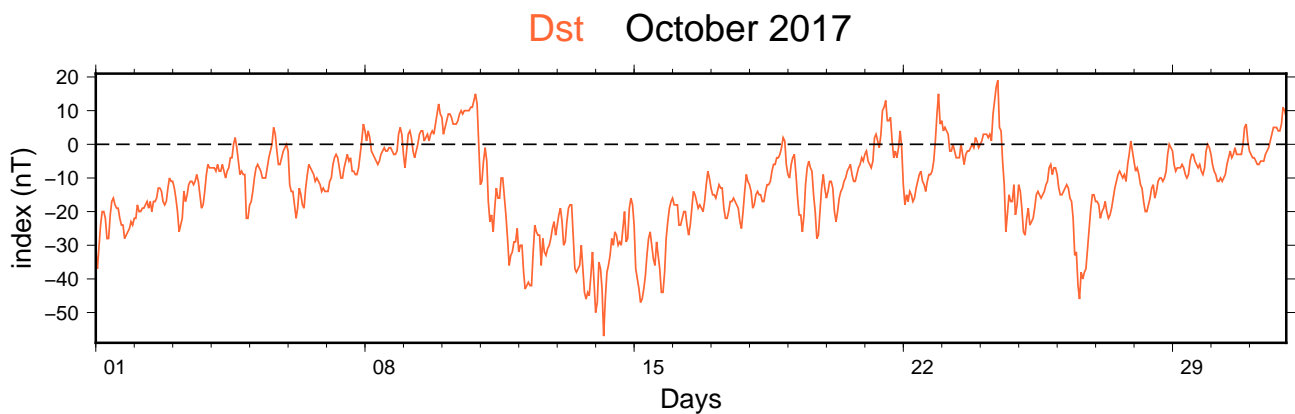
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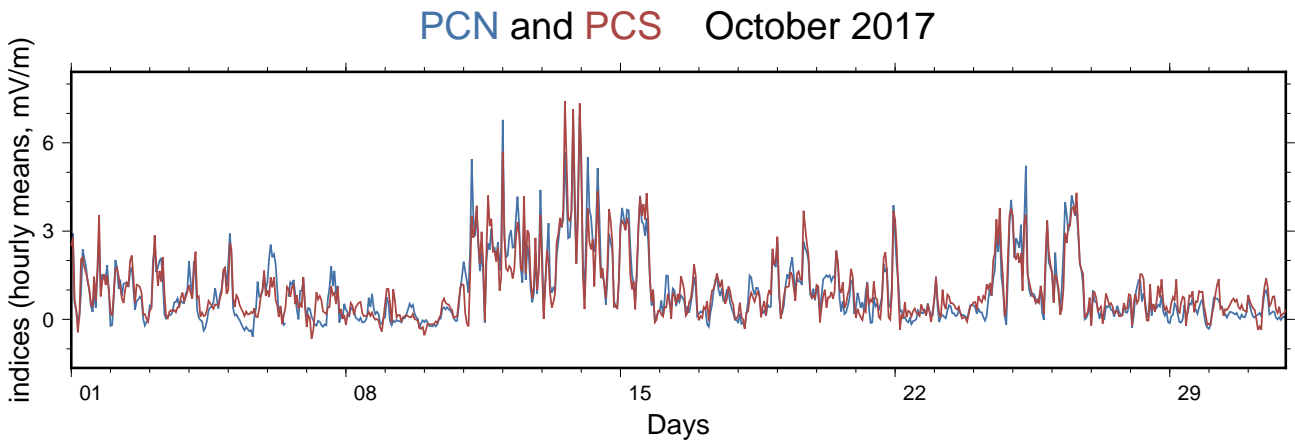


1.5 PC

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1.6 *AE*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

Data Analysis Center for Geomagnetism and Space Magnetism

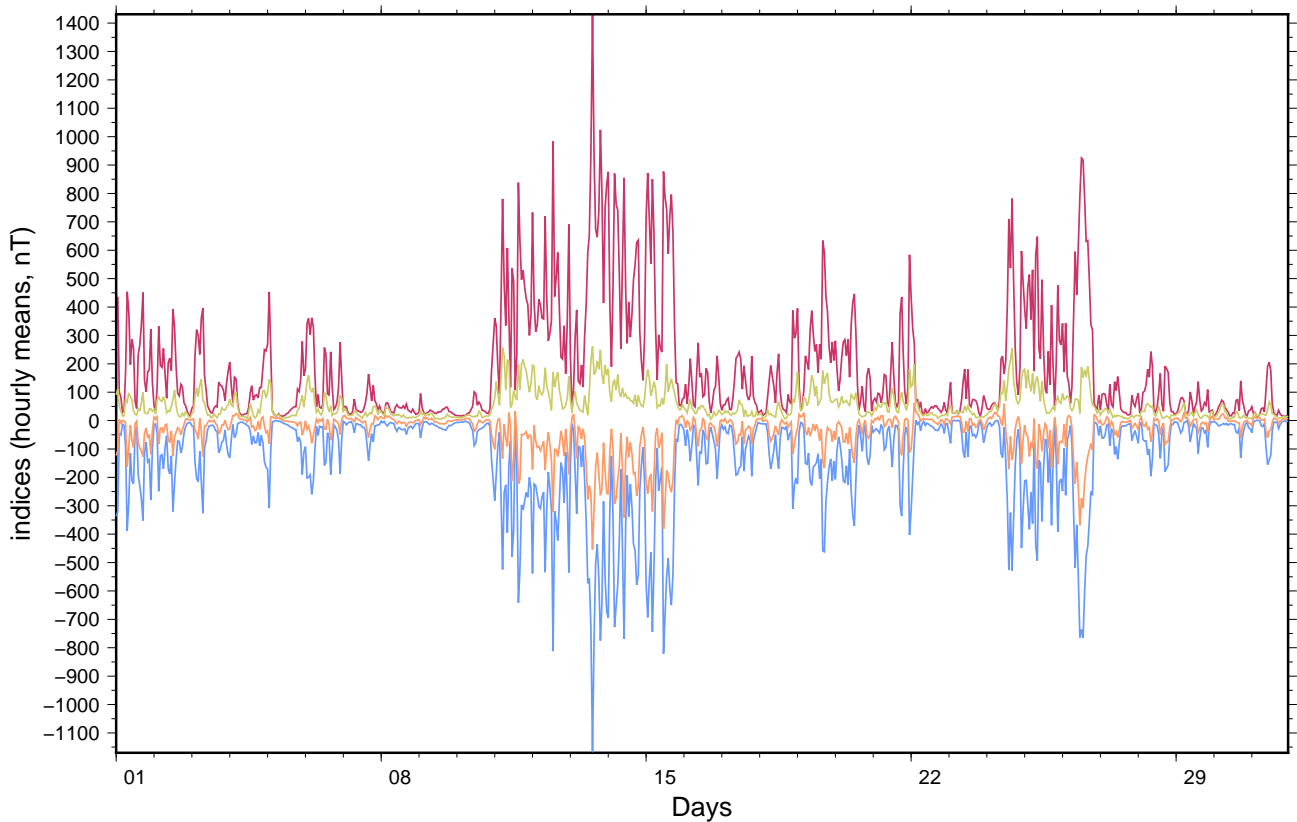
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AE, AU, AL and AO October 2017



2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 SC (SSC/SI) and SFE

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SC:

YYYY	MM	dd	hh	min	Rise-time	Amplitude (nT)				Qualification	Observatories	Type
2017	10	21	06	10	6 6 5 5 5	5.5	6.0	6.9	12.5	8.1 1 0 1 2 2	HON SJG MBO ABG KNY	SSC

SFE:

Month	DD HH MM	Observatories reporting sfe	Qualification
October	NONE		

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2017-10-01	24	-	-	11	
2017-10-02	13	-	C	5	
2017-10-03	11	C	C	6	
2017-10-04	10	C	C	5	
2017-10-05	12	K	-	6	
2017-10-06	17	-	-	8	
2017-10-07	8	C	C	3	Q7
2017-10-08	7	C	C	3	Q6
2017-10-09	4	C	C	1	Q2
2017-10-10	7	C	-	2	Q5
2017-10-11	51	-	-	28	D3
2017-10-12	47	-	-	26	D4
2017-10-13	64	-	-	37	D1
2017-10-14	52	-	-	30	D2
2017-10-15	38	-	-	25	D5
2017-10-16	15	-	-	8	
2017-10-17	12	C	C	5	
2017-10-18	11	C	-	4	Q10
2017-10-19	25	-	-	12	
2017-10-20	15	-	-	7	
2017-10-21	20	-	-	8	
2017-10-22	13	-	-	6	
2017-10-23	13	-	-	4	Q9
2017-10-24	35	-	-	18	
2017-10-25	34	-	-	19	
2017-10-26	31	-	-	17	
2017-10-27	10	C	C	4	Q8
2017-10-28	12	C	C	5	
2017-10-29	7	C	C	3	Q3
2017-10-30	6	C	C	2	Q1
2017-10-31	6	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 ($Ap < 20 \text{ nT}$).