
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

MONTHLY BULLETIN DECEMBER 2016

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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>	3
1.4	<i>Dst</i>	4
1.5	<i>PC</i>	5
1.6	<i>AE</i>	6
2	IAGA Endorsed Geomagnetic Events (non-definitive values)	7
2.1	<i>SSC</i> and <i>SFE</i>	7
2.2	Classification of days	8
2.2.1	Truly magnetically very quiet (C) and quiet (K) periods (from <i>aa</i>)	9
2.2.2	10 international quietest days (Q1-10) and 5 most disturbed days (D1-5)	9

1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

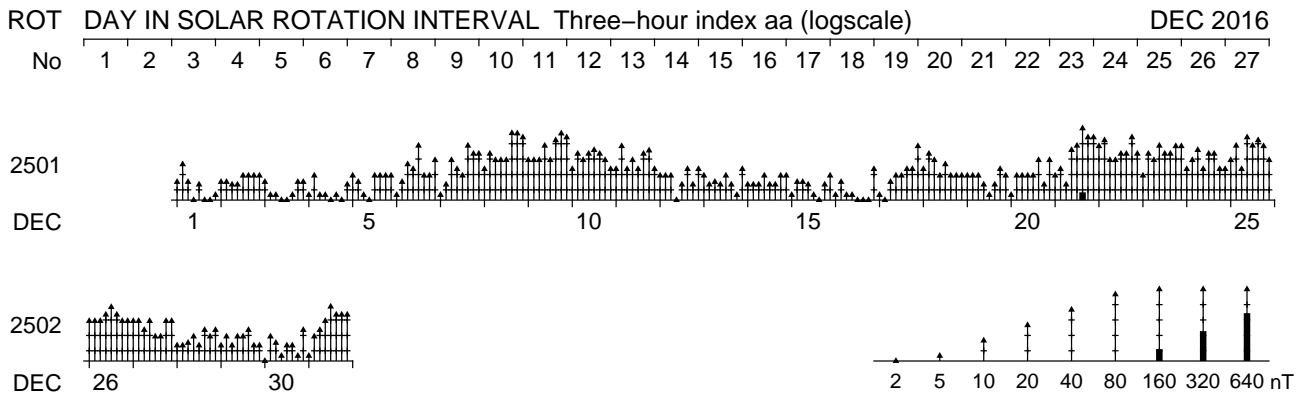
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1.2 *am*

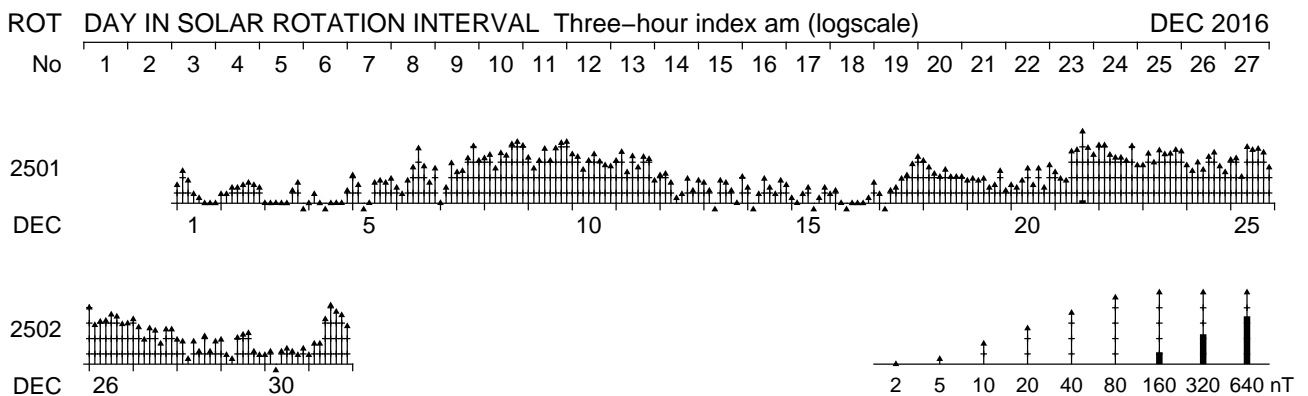
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1.3 K_p

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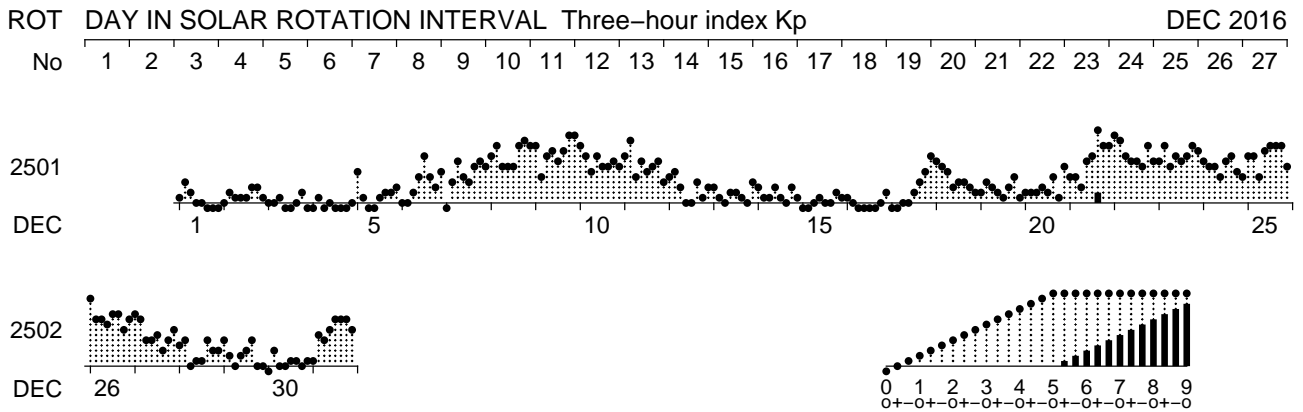
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1.4 *Dst*

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World Data Center for Geomagnetism, Kyoto

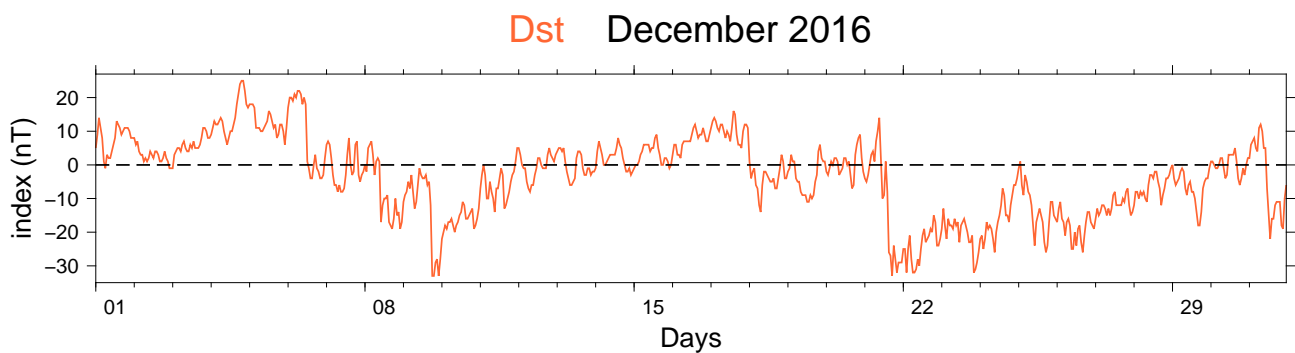
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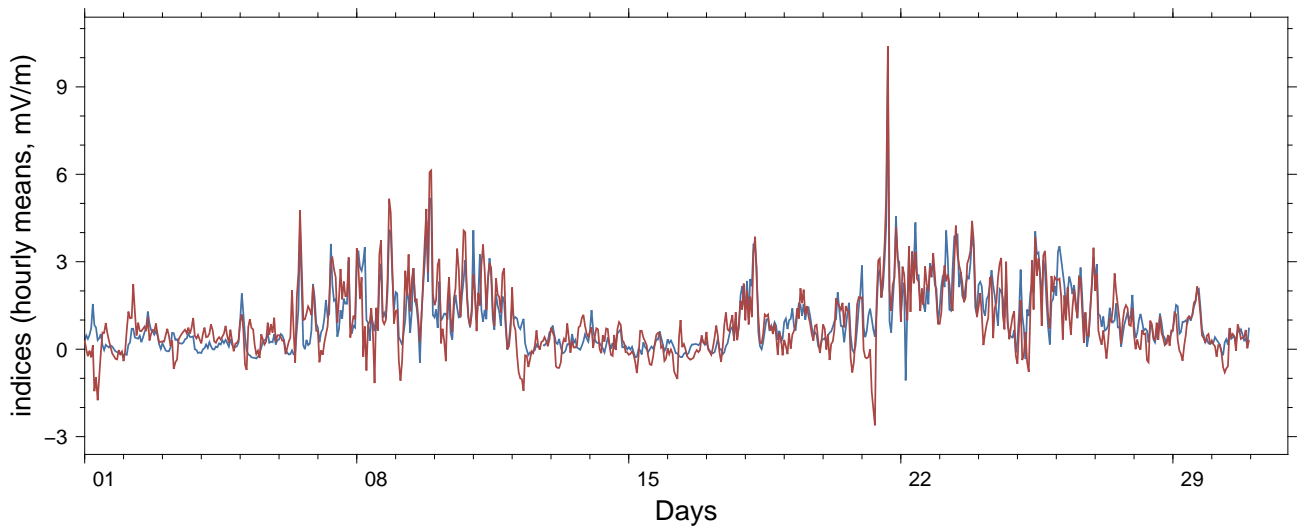
1.5 PC

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PCN and PCS December 2016



1.6 *AE*

ISGI Collaborating Institute:

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Data Analysis Center for Geomagnetism and Space Magnetism

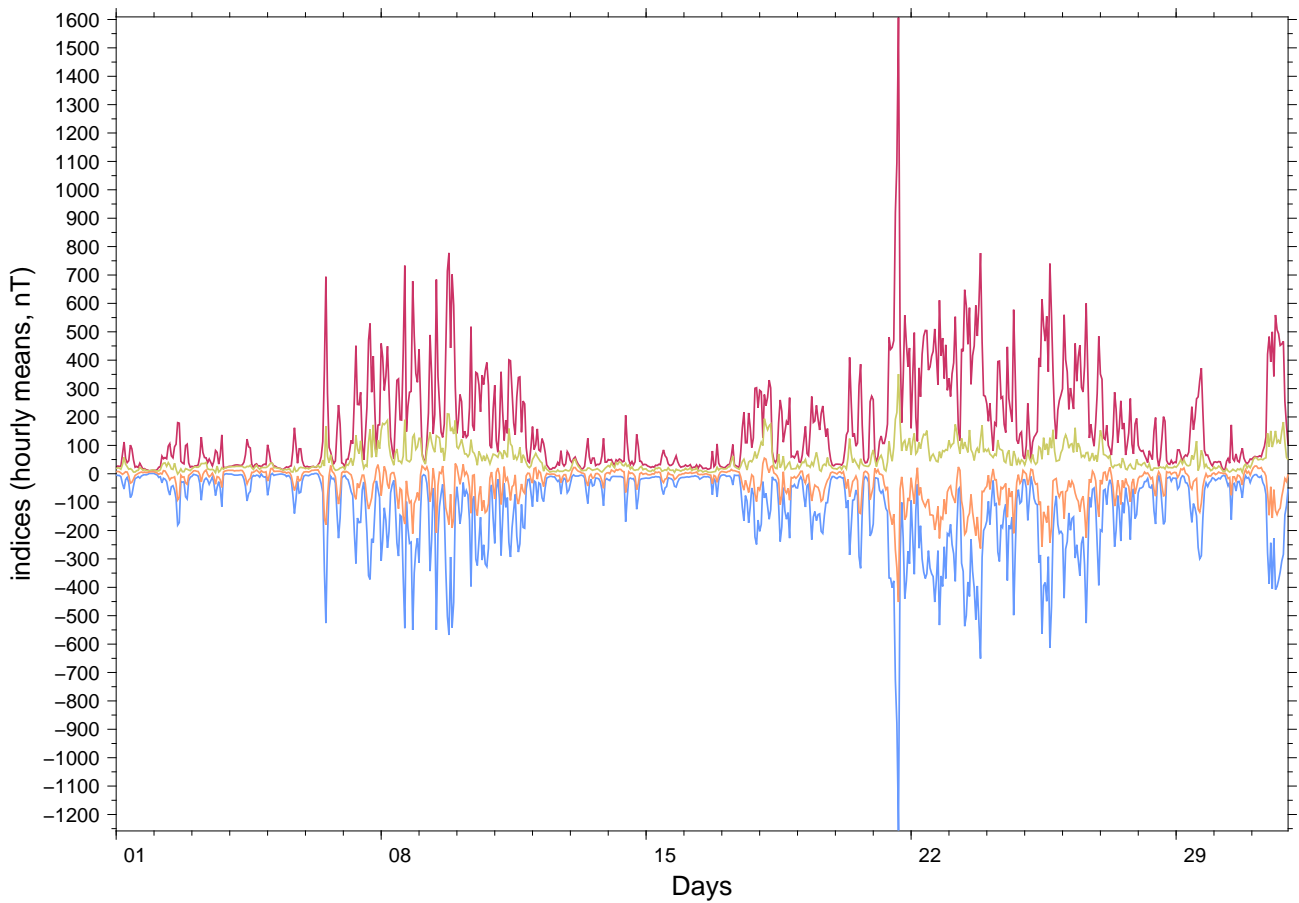
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AE, AU, AL and AO December 2016



2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

NONE

SFE:

NONE

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2016-12-01	7	C	C	2	Q6
2016-12-02	10	C	C	4	Q7
2016-12-03	6	C	C	2	Q3
2016-12-04	6	C	C	1	Q1
2016-12-05	10	C	C	4	Q10
2016-12-06	18	-	-	7	
2016-12-07	22	-	-	9	
2016-12-08	44	-	-	21	D4
2016-12-09	44	-	-	24	D1
2016-12-10	27	-	-	15	
2016-12-11	25	-	-	14	
2016-12-12	11	C	-	5	
2016-12-13	10	C	C	4	Q9
2016-12-14	10	C	C	4	Q8
2016-12-15	7	C	C	2	Q4
2016-12-16	6	C	C	1	Q2
2016-12-17	15	-	-	5	
2016-12-18	18	-	-	8	
2016-12-19	11	C	C	5	
2016-12-20	14	-	-	5	
2016-12-21	49	-	-	23	D5
2016-12-22	39	-	-	22	D2
2016-12-23	34	-	-	19	
2016-12-24	24	-	-	12	
2016-12-25	41	-	-	20	
2016-12-26	29	-	-	20	D3
2016-12-27	20	-	-	11	
2016-12-28	11	C	-	5	
2016-12-29	11	C	C	4	
2016-12-30	8	C	C	2	Q5
2016-12-31	25	-	-	12	

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