

Monthly Preliminary Geomagnetic Bulletin - MAY 2015

Coimbra Magnetic Observatory (COI, IAGA code)

$\phi = 40.222^\circ$; $\lambda = 351.578^\circ$

Observatório Geofísico e Astronómico da Universidade de Coimbra (OGAUC)

Absolute monthly means

H (nT)	D (°)	Z (nT)	X (nT)	Y (nT)	I (°)	F (nT)
25653	-2.665	36241	25625	-1193	54.708	44401

Monthly daily amplitudes*

	H (nT)	D (°)	Z (nT)	X (nT)	Y (nT)	I (°)	F (nT)
mean	31	9.3	51	29	70	3.4	39
min	15	7.2	38	15	54	2.0	18
max	59	14.7	77	60	109	4.9	69

Monthly maximum amplitudes*

H (nT)	D (°)	Z (nT)	X (nT)	Y (nT)	I (°)	F (nT)
84	15.2	89	84	113	8.1	70

(*) - Based on hourly values

Geomagnetic Activity - K indices

K indices

ak indices (nT)

Day	Tri-hourly values									Tri-hourly values									Ak
	0	3	6	9	12	15	18	21	0	3	6	9	12	15	18	21			
1	1	2	2	2	1	2	2	2	4	10	10	10	4	10	10	10	8.0		
2	2	2	1	2	1	1	3	3	10	10	4	10	4	4	21	21	10.5		
3	3	3	2	2	1	2	1	1	21	21	10	10	4	10	4	4	10.5		
4	2	1	2	2	3	2	2	2	10	4	10	10	21	10	10	10	10.5		
5	1	0	2	2	2	2	1	2	4	0	10	10	10	10	4	10	7.2		
6	3	3	3	3	4	5	4	2	21	21	21	21	38	63	38	10	29.1		
7	2	2	2	2	2	3	3	2	10	10	10	10	10	21	21	10	12.6		
8	3	2	2	2	2	2	1	1	21	10	10	10	10	10	4	4	9.8		
9	1	0	0	3	2	3	3	3	4	0	0	21	10	21	21	21	12.3		
10	1	2	2	3	3	1	2	2	4	10	10	21	21	4	10	10	11.2		
11	3	3	2	2	2	2	2	3	21	21	10	10	10	10	10	21	14.0		
12	3	2	3	2	3	3	3	3	21	10	21	10	21	21	21	21	18.2		
13	4	4	4	3	3	3	4	4	38	38	38	21	21	21	38	38	31.5		
14	2	2	2	2	2	2	3	3	10	10	10	10	10	10	21	21	12.6		
15	2	2	2	2	1	1	2	2	10	10	10	10	4	4	10	10	8.4		
16	1	1	1	2	2	1	2	2	4	4	4	10	10	4	10	10	7.0		
17	2	2	2	1	2	2	2	1	10	10	10	4	10	10	10	4	8.4		
18	1	2	3	3	3	2	3	5	4	10	21	21	21	10	21	63	21.4		
19	5	3	2	2	2	2	2	1	63	21	10	10	10	10	10	4	17.2		
20	3	2	2	1	2	2	1	0	21	10	10	4	10	10	4	0	8.6		
21	0	0	1	1	1	2	1	1	0	0	4	4	4	10	4	4	3.9		
22	1	1	1	2	2	2	2	0	4	4	4	10	10	10	10	0	6.5		
23	0	1	1	1	1	1	2	1	0	4	4	4	4	4	10	4	4.4		
24	1	1	1	1	1	2	2	2	4	4	4	4	4	10	10	10	6.3		
25	0	0	1	1	1	2	1	1	0	0	4	4	4	10	4	4	3.9		
26	1	2	2	1	1	3	3	1	4	10	10	4	4	21	21	4	9.8		
27	0	1	1	1	3	2	1	2	0	4	4	4	21	10	4	10	7.2		
28	2	2	2	2	2	2	2	2	10	10	10	10	10	10	10	10	9.8		
29	1	2	2	2	2	2	2	2	4	10	10	10	10	10	10	10	9.1		
30	1	1	2	1	2	1	1	2	4	4	10	4	10	4	4	10	6.3		
31	2	1	2	1	2	2	2	2	10	4	10	4	10	10	10	10	8.4		

Monthly mean of the daily equivalent amplitude Ak: 11.1

K values:	0	1	2	3	4	5	6	7	8	9
Freq. (N):	11	68	118	41	7	3	0	0	0	0
Freq. (%):	4.44	27.42	47.58	16.53	2.82	1.21	0.00	0.00	0.00	0.00

Classification of days	Quiet					Disturbed				
	Q1	Q2	Q3	Q4	Q5	D1	D2	D3	D4	D5
Coimbra (local K):	25	21	23	24A	30A	13	6	18	12*	19*
International (Kp):	25	21	22	23	24	13	6	12*	18*	11*

Principal Magnetic Storms in May 2015

Storminess period					Commencement				Maximum activity			Range		
Day	Begin		End		Type	Amplitude			Day	3hp	K	H (nT)	D (°)	Z (nT)
	hour	min	day	hour		H (nT)	D (°)	Z (nT)						
6	1	43	6	20	ssc	26	0.8	1	6	6	5	70	17	84
18	19	38	19	6	gradual	-	-	-	19	1	5	70	9	32

ssc: storm sudden commencement;

3hp: Daily 3-hour period of maximum activity; K: maximum local index

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