



Coimbra Geomagnetic K indices - 2015 (COI: IAGA code)

Geographic coordinates: Latitude = 40.222 N; Longitude = 351.578 E
Geomagnetic coordinates: Latitude = 43.64 N; Longitude = 72.29 E

	January	February	March	April	May	June	July	August	September	October	November	December
1	2 1 1 1 2 2 2 2 D 4	2 3 2 2 3 5 5 D	4 4 4 3 2 2 2 3	1 1 2 2 2 3 2 3	1 2 2 2 1 2 2 2	3 2 1 2 1 2 2 1	1 1 1 1 2 2 2 0	3 2 2 3 2 3 2 2 Q	2 1 1 2 2 2 1 2	1 1 1 1 3 3 4 4	2 3 2 2 2 2 3 2	2 2 1 2 3 3 3 4
2	2 1 1 2 3 3 4 4 D 4	4 4 3 3 3 4 4 4 D	3 3 4 4 4 3 3 3	1 2 2 2 2 3 4	2 2 1 2 1 1 3 3 Q	0 1 1 1 2 2 1 0 Q	0 1 2 1 2 1 1 0	3 2 2 1 2 3 2 2	2 1 1 2 2 3 3 2	2 3 3 2 2 2 3 2	1 0 1 1 3 3 0 2	2 2 2 1 2 2 3 2
3	4 2 2 3 3 2 1 0	4 3 2 2 3 3 3 3	3 3 2 2 2 2 3 3	3 2 2 3 2 2 3	3 3 2 2 1 2 1 1 Q	0 1 2 1 2 1 2 0 Q	1 1 1 1 1 2 1 0	2 2 2 1 2 2 1 2	2 2 1 2 2 1 2 4	2 3 2 1 2 3 2 2 D	3 3 5 4 4 4 5 4 Q	1 1 1 1 1 0 1 2
4	D 1 1 2 2 2 4 4 5	2 1 2 2 2 3 1 2	2 1 2 3 3 2 2 3	3 2 2 2 3 3 2 2	2 1 2 2 3 2 2 2 Q	0 1 1 1 2 2 2 0 D	1 1 2 2 3 3 5 4	2 2 2 1 2 2 2 4	4 4 3 3 2 3 3 3	3 3 3 2 2 2 2 4 D	4 4 4 4 5 3 3 2 Q	1 2 1 2 1 1 1 2
5	D 5 3 2 2 2 2 3 4	2 2 2 2 3 3 2 2 Q	1 0 1 1 3 3 2 2	2 1 2 3 1 2 2 3	1 0 2 2 2 1 2 Q	0 1 1 2 1 2 1 1 D	5 4 3 3 2 3 3 2 Q	2 1 1 2 2 2 2 3	2 2 2 2 2 4 4 2	4 3 3 4 3 3 2 3	3 1 3 3 3 4 3 3	2 2 2 3 2 4 3 4
6	1 3 2 3 3 3 3 2	0 0 2 2 2 2 1 0	2 2 3 2 2 2 3 4	2 2 2 2 2 2 1 1 D	3 3 3 3 4 5 4 2	1 2 2 3 2 2 2 1	3 3 3 2 2 2 3 1	2 1 2 3 3 3 3 2	2 2 2 3 2 4 2	2 3 3 2 3 3 5 5	4 1 2 2 2 2 4 4 D	2 4 2 4 4 4 3 3
7	D 2 3 5 4 4 4 2 4	1 1 2 3 2 2 2 1	3 3 2 3 3 3 4 3	2 1 2 2 2 2 2 1	2 2 2 2 3 3 2 Q	0 1 2 1 2 3 3 3	2 1 2 2 2 1 1 2	2 2 4 2 4 4 2 2 D	2 2 3 3 4 5 5 5 D	3 5 5 5 3 5 6 6 D	4 5 4 4 3 2 3 1	3 3 2 3 3 4 4 2
8	D 3 3 2 2 2 2 3	2 2 2 2 3 3 3 3	3 2 2 3 3 3 2 1 Q	1 0 1 1 2 2 2 1	3 2 2 2 2 1 1 D	3 4 5 4 3 4 3 4	1 1 1 1 1 2 1 1	2 2 3 3 1 2 3 D	6 4 2 2 3 2 3 4 D	4 4 4 3 4 5 5 5	2 1 1 3 3 4 4 4	3 2 2 2 1 1 3
9	2 1 2 2 2 2 2 2	3 1 1 1 3 2 2 3 Q	4 1 1 1 2 2 1 1	2 3 3 3 2 3 3 3	1 0 0 3 2 3 3 3	3 3 3 2 3 3 3 2	1 2 2 1 2 1 2 1	2 2 2 2 2 2 3 D	4 4 5 5 4 3 5 5 D	3 2 3 3 3 4 5 4 D	4 2 3 3 4 4 4 5	2 2 1 2 2 3 4 2
10	2 3 2 2 3 4 2 1	1 2 2 2 2 2 3 Q	2 1 1 1 2 3 1 1 D	4 5 4 3 4 3 3 2	1 2 2 3 3 1 2 2	3 2 3 2 2 2 2 2	1 1 1 2 1 2 2 5	3 2 3 2 2 1 2 2	2 1 2 2 3 5 5 4	3 2 3 2 3 3 2 3 D	4 3 4 5 5 4 4 4 D	3 4 2 3 3 4 4 4
11	2 1 2 2 2 1 2 3	1 3 2 2 3 2 1 1	1 2 2 2 3 3 3 1	3 3 3 2 2 3 2 1 D	3 3 2 2 2 2 2 3	2 3 2 3 2 3 2 1 D	4 4 4 3 2 2 3 3	3 2 2 2 2 3 2 2 D	3 4 6 5 4 5 3 4	3 2 2 2 3 2 4 4	4 2 3 3 3 4 4 2	4 2 2 3 3 5 4 4
12	1 1 1 2 2 3 2 2 Q	1 1 1 1 2 1 2 2	2 3 3 2 3 2 1 0 Q	1 1 1 1 2 1 1 1 D	3 2 3 2 3 3 3 3	2 1 1 2 3 3 2 2	3 2 3 2 2 3 3 2	2 2 2 2 2 3 3 3	4 2 3 3 2 3 2 2 D	2 2 2 3 3 5 4 4	1 0 1 2 2 2 1 1	3 3 2 1 2 3 2 2
13	2 1 1 2 2 3 2 2 Q	0 0 1 1 1 2 1 1	1 1 1 2 3 2 1 1	2 2 2 1 2 2 1 1 D	4 4 4 3 3 3 4 4	2 3 3 2 2 2 2 2 D	3 5 4 3 3 3 5 2	3 3 2 2 2 2 2 1	1 1 2 2 3 4 4 3 D	2 3 3 3 3 4 4 4	2 1 1 2 4 3 4 4	2 2 2 2 1 1 0 1
14	2 1 1 2 3 1 2 1 Q	0 1 1 1 1 1 1 1 Q	0 2 2 2 2 1 1 3	1 0 1 1 3 4 4 4	2 2 2 2 2 3 3 3 D	4 2 3 4 3 2 3 3	3 1 1 1 2 2 2 2 Q	0 0 1 1 2 1 1 2	2 1 1 3 2 5 5 3	3 3 3 3 3 4 3 3	3 2 1 2 3 1 2 3	2 2 1 2 4 5 5 6
15	Q 1 0 1 2 3 3 1 1	1 2 2 2 3 3 2 1	2 1 2 2 2 2 2 2 D	3 3 3 4 4 4 5 4	2 2 2 2 1 1 2 2	2 2 2 2 3 3 3 3	1 2 2 2 2 2 2 2 D	3 2 4 5 5 4 3 3	4 3 2 3 4 4 3 3	3 1 2 2 2 1 3 3	2 1 2 2 2 1 3 3	4 3 2 2 4 4 3 3
16	2 3 2 2 2 1 2 1	1 1 1 1 2 2 3 3	2 3 4 3 3 3 2 1 D	4 3 3 3 3 5 5	1 1 1 2 2 1 2 2	3 2 2 2 2 3 3 2	3 2 2 2 2 1 1 D	5 4 5 4 2 4 4 4	2 2 2 2 2 4 3 4	2 2 1 2 2 1 1	3 2 2 2 3 2 3 3	4 3 1 2 1 1 1 1
17	3 2 1 2 2 1 1 2 D	3 3 3 3 3 2 4 4 D	2 4 5 6 6 6 6 6 D	4 3 3 3 3 2 3 2	2 2 2 1 2 2 2 1	3 2 3 2 3 3 1 1	1 1 2 1 1 1 1 0	3 3 4 4 4 3 4 3	4 2 2 2 2 1 4	2 2 1 2 3 3 4 2	2 2 2 2 3 3 2	1 0 1 2 2 2 4 2
18	Q 0 0 1 1 2 1 2 3	D 4 3 2 2 3 3 3 3	D 5 4 3 3 5 5 5 5	2 1 2 2 2 3 4 3 D	1 2 3 3 3 2 3 5	3 2 2 2 2 2 2 0 Q	0 1 1 1 2 2 2 1	3 2 3 2 1 2 1 2	3 1 3 2 3 2 4 3	3 2 3 4 3 3 3 3	1 2 1 2 3 4 4 5 Q	1 1 1 1 2 1 2 3
19	Q 2 1 1 1 2 1 1 2	3 2 2 1 2 3 3 3 D	4 3 3 4 3 3 3 4	3 2 3 2 2 2 3 4	5 3 2 2 2 2 2 1	2 1 1 2 1 1 0 0 Q	0 0 2 2 1 2 2 1	4 3 3 3 3 2 2 3	3 3 3 3 2 1 1 4 Q	1 2 1 1 1 2 1 1	3 2 2 3 2 1 1 1	1 1 1 1 2 3 5 4
20	Q 2 1 1 2 1 1 1 1	0 2 2 2 2 1 1 2	4 3 4 3 2 3 4 5	3 3 2 2 2 2 3 4	3 2 2 1 2 2 1 0 Q	0 1 1 1 1 2 1 0 Q	0 1 1 2 2 1 1 1	3 2 2 3 4 3 3 3	3 4 5 4 3 4 3 3	2 2 1 1 2 3 3 3	1 1 3 2 1 1 1 1 D	4 5 5 3 4 6 6 7
21	2 2 2 2 2 4 4 3	2 2 1 1 2 2 1 3	4 3 2 2 2 2 2 2 D	3 3 3 4 4 3 3 3 Q	0 0 1 1 1 2 1 1	1 0 1 1 2 4 3 3	3 2 3 2 2 2 2 2 Q	1 1 2 2 2 2 2 1	3 2 1 3 2 2 1 2	1 1 2 3 3 3 2 2	3 1 1 0 0 0 1 1 D	6 4 4 3 2 1 2 3
22	3 2 1 2 3 1 3 2	2 2 1 1 2 2 2 3	2 3 5 4 3 2 2 1	2 2 2 2 3 3 2 2 Q	1 1 1 2 2 2 2 0	2 3 4 3 5 5 8 6	1 1 1 2 2 3 3 2	2 0 1 3 3 3 2 3	3 2 3 1 2 2 2 2 Q	1 1 1 1 2 2 2 2 Q	0 0 1 1 1 2 1 1 0	2 2 3 4 2 2 3 2
23	3 2 2 2 3 2 1	3 2 2 3 3 4 4 4	4 4 2 3 3 3 3 4	2 2 1 1 1 2 2 2 Q	0 1 1 1 1 1 2 1 D	5 5 5 4 5 3 4 3 D	3 4 5 3 3 3 4 3	3 3 4 4 4 3 4 3	2 2 3 3 3 5 5 2	2 1 1 1 2 2 2 2 Q	0 0 1 1 1 2 0 1	2 2 2 3 3 3 3
24	0 1 1 1 2 2 3 2 D	5 5 3 3 3 3 2 3	2 1 2 3 4 4 2 2	2 2 2 2 2 2 2 0 Q	1 1 1 1 1 2 2 2	4 3 3 2 3 3 3 1	2 1 2 2 3 3 2 2	3 2 2 2 2 3 2 1	3 2 2 2 2 3 3	2 3 2 1 1 1 4 3 Q	0 0 0 1 1 1 0 0	2 2 2 2 3 2 3 2
25	Q 2 2 1 2 2 2 3	Q 0 1 3 2 3 3 3 0	1 1 2 3 4 3 3 2 Q	0 0 1 1 1 2 2 0 Q	0 0 1 1 1 2 1 1 D	3 3 4 4 5 4 4 3	2 2 2 3 2 2 2 2	2 2 1 2 2 2 3 3	2 2 2 2 3 2 1 1	2 2 2 3 2 1 1 Q	0 0 1 1 1 1 0 0	2 2 2 2 2 2 2 2
26	D 3 2 2 3 3 3 3 3	Q 2 0 2 2 2 1 1 1	3 1 1 1 3 3 3 4 Q	1 0 2 3 1 2 2 1	1 2 2 1 1 3 3 1	2 2 2 3 2 2 1 2	3 1 1 3 1 2 2 2	3 4 2 3 3 4 4 4 Q	2 1 1 2 2 2 2 2 Q	1 0 1 1 2 1 0 0 Q	0 0 1 2 0 0 2 2	3 2 2 3 4 4 3 5
27	3 2 3 2 2 3 4	0 0 1 1 1 2 2 2	3 2 2 2 3 3 2 1	0 0 2 2 2 2 2 2	0 1 1 1 3 2 1 2	2 3 3 2 2 2 2 2	2 2 2 2 2 2 2 2 D	4 5 4 3 4 4 4 6	Q 1 1 1 1 1 1 2 2 Q	0 0 0 1 2 1 1 2	2 2 1 2 2 2 1 1	3 2 2 2 3 2 2 2
28	3 2 2 2 2 1 2	1 2 2 2 2 4 4 4	0 2 2 2 2 3 2 3	2 1 2 2 2 2 2 1	2 2 2 2 2 2 2 2	3 3 3 2 3 2 3 2	2 2 1 2 3 2 2 1 D	6 3 2 3 4 4 4 3 Q	1 1 1 0 0 2 3 1 2 Q	0 1 1 2 2 0 0 0	2 1 1 1 2 2 4 4 Q	2 1 1 2 2 1 1 1
29	2 1 2 2 2 3 4 3		4 3 2 2 2 2 2 2 Q	1 0 1 1 2 2 1 1	1 2 2 2 2 2 2 2	2 2 2 2 2 2 2 0	1 2 1 2 2 1 2 0	3 2 2 2 3 3 4 2	2 3 2 2 2 2 1 0	1 0 0 1 1 0 1 3	1 1 2 2 3 2 3 3	2 1 1 1 2 3 2 2
30	2 2 2 2 2 4 4		Q 2 1 1 1 2 2 2 2	3 1 1 1 1 1 2 2	1 1 2 1 2 1 1 2	1 2 1 2 3 1 2 3	2 2 1 2 2 3 4 4 Q	1 1 1 1 1 2 2 1 Q	0 0 0 1 2 2 1 1	2 1 1 2 3 3 2 3	2 2 4 3 2 1 2 2 Q	0 0 1 2 2 2 1 2
31	1 2 2 2 2 3 4		0 0 3 3 3 3 3 2		2 1 2 1 2 2 2 2		3 3 3 3 3 4 4 3 Q	1 1 1 2 2 2 3 2		0 0 0 2 2 2 2 3		D 4 3 3 4 5 5 5 4

K ≤ 3 (87,019%) Quiet to Unsettled	K = 4 (9,409%) Active	K = 5 (2,953%) Minor storm	K ≥ 6 (0,617%) Moderate to Extreme storm
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Missing Data International Classification of Days (based on Kp index): Q = quiet; D = disturbed
<http://www.gfz-potsdam.de/en/section/earths-magnetic-field/>

The geomagnetic 3-hourly K index, and by extension the planetary Kp index, are used to characterise the geomagnetic activity and the magnitude of its storms. It consists of an integer in the range 0–9 (with K ≥ 5 indicating a geomagnetic storm) that measures the maximum fluctuations (relative to an assumed quiet-day curve) of horizontal components of earth's magnetic field.