



Coimbra Geomagnetic K indices - 2016 (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	D 5 4 4 3 2 1 2 2	2 4 2 2 1 2 0 0	4 2 2 2 2 2 1 3	Q 2 0 1 1 1 1 2 1	D 2 2 2 2 3 3 4 4	2 1 1 1 2 2 2 1	3 3 3 3 2 2 0 0	Q 1 1 1 2 2 2 2 2	4 3 3 3 4 4 5 5	3 3 2 2 2 4 5 4	2 1 2 2 3 2 2 4	1 1 1 1 1 0 0 0
2	3 2 2 2 2 2 2 1	0 1 1 1 2 2 3 2	3 1 1 2 2 2 1 1	D 2 1 1 0 4 5 4 4	D 5 4 2 2 2 3 4 4	Q 1 1 1 1 1 2 1 1	1 1 1 1 2 2 3 4	1 2 2 2 3 4 5 5	D 4 5 2 3 4 4 3 5	3 2 2 2 4 3 5 3	4 2 1 3 4 3 2 5	1 1 1 1 1 2 2 1
3	1 1 2 1 1 2 2 3	3 3 2 1 2 2 1 1	2 2 2 2 1 1 2	4 2 3 3 1 2 2 4	3 2 3 1 2 2 2 2	Q 1 1 1 1 1 1 2 2	3 2 1 1 2 3 2 3	D 5 3 4 4 4 4 3 2	D 4 5 3 3 4 5 4 4	2 2 3 1 2 3 4 3	D 3 2 3 3 3 3 3 4	Q 0 0 0 0 1 2 0 0
4	0 1 1 1 1 2 2 1	1 0 1 2 3 2 1 1	Q 2 1 0 1 2 2 1 0	3 3 2 2 2 1 2 1	Q 2 1 0 1 2 1 1 1	Q 1 1 1 2 1 2 1 2	2 2 3 2 2 1 2 2	D 4 3 2 3 3 3 3 2	4 3 3 2 4 4 5 4	3 4 3 3 4 3 3 4	2 1 1 1 1 0 1 1	Q 0 0 1 0 0 1 1 1
5	1 1 1 2 2 2 2 2	2 2 2 2 2 2 3 2	Q 0 0 2 3 3 2 1 0	1 1 1 1 2 2 3 2	0 1 2 2 3 2 2 3	D 1 2 2 4 4 4 5 5	Q 1 1 2 2 1 2 2 1	1 3 3 3 3 3 2 3	3 2 3 2 2 4 5 3	4 3 3 2 2 2 2 3	Q 1 1 1 1 1 0 0 1	2 1 0 0 1 2 1 2
6	D 5 3 2 3 3 3 3 4	1 2 2 2 1 2 2 3	D 1 2 2 3 4 6 5 6	2 1 2 2 3 1 1	2 2 2 2 3 3 4 3	D 4 3 3 4 4 2 3 2	1 1 2 1 2 1 2 3	2 2 3 3 3 3 2 3	2 2 2 3 3 2 4 2	2 1 1 1 2 3 3 2	1 0 1 2 2 1 2 2	0 1 1 2 4 3 2 3
7	D 3 2 2 3 2 3 3 1	2 1 1 2 2 3 2 2	D 4 4 3 2 3 4 3 5	3 0 2 2 2 3 5 5	4 1 2 2 2 3 2 3	2 2 1 2 2 2 3 2	3 2 3 2 3 4 4 3	3 2 3 2 3 2 3 3	3 2 1 3 4 4 2 2	2 1 1 1 1 2 2 2	2 1 2 1 2 1 0 0	0 1 2 2 2 3 3 3
8	1 2 1 2 2 2 2 1	D 5 4 3 2 1 1 1 0	3 1 1 1 2 2 3 1	4 2 2 2 1 2 2 1	D 5 5 6 5 5 5 4 5	2 2 1 2 2 2 1 0	D 3 2 3 3 4 3 4 2	3 2 2 2 2 3 3 1	3 3 2 3 2 2 3 2	3 3 2 2 2 2 2 2	Q 0 1 1 1 1 1 1 2	D 3 3 3 3 2 5 5 5
9	2 1 2 2 1 1 1 1	2 1 2 3 2 2 2 3	2 2 1 1 2 3 2 2	Q 0 0 1 1 2 3 2 1	D 5 3 3 3 3 3 4 4	2 0 1 1 3 3 1 0	3 2 3 2 3 3 3 2	2 2 2 3 3 3 2 3	2 0 1 1 2 2 1 2	Q 2 1 1 1 2 2 2 2	0 0 2 1 2 2 3 2	D 4 2 2 4 3 4 5 5
10	2 2 1 3 2 1 3 3	3 1 2 1 0 1 1 1	2 2 2 2 1 1 2 3	1 1 2 2 2 2 2 2	3 3 3 2 3 3 2 2	0 1 1 1 1 2 3 3	2 2 2 2 3 3 2 2	3 3 2 3 2 3 3 3	Q 1 1 1 1 1 1 2 3	3 2 2 2 2 3 4 1	2 2 2 2 3 4 3 3	4 3 2 3 2 3 3 3
11	2 2 3 2 2 3 4 3	2 1 2 2 2 2 3 4	2 2 2 4 5 3 4 3	0 0 1 1 2 3 1 2	2 1 1 1 1 1 1 2	3 2 2 1 2 3 3 4	2 2 2 2 2 3 2 3	1 1 2 1 2 3 3 3	Q 1 0 1 1 2 1 2 1	Q 0 0 1 1 1 2 1 1	3 1 1 2 2 2 2 3	3 4 2 2 3 3 3 2
12	4 2 2 2 3 3 3 3	3 2 2 3 3 2 3 3	3 2 2 2 2 4 4 2	D 3 2 1 3 3 3 4 4	Q 2 1 1 1 1 0 1 2	2 2 2 2 3 3 3 2	D 3 3 3 3 2 2 3 3	4 3 2 2 2 2 2 2	2 1 2 2 2 2 2 2	1 1 1 1 1 2 2 3	D 3 3 2 4 4 3 3 4	2 1 1 2 2 2 1 2
13	4 4 1 2 2 2 3 1	2 2 2 2 2 1 1 1	Q 1 2 1 1 2 1 0 1	D 5 3 3 3 5 4 4 3	2 1 2 1 2 2 2 2	3 3 2 3 2 2 2 1	3 2 2 2 2 2 1 2	1 1 1 1 2 2 2 1	2 1 1 2 1 1 1 1	D 3 3 4 4 4 4 5 4	D 3 3 2 3 3 3 5 4	1 1 1 1 1 1 0 2
14	1 2 1 2 2 2 3 1	2 2 2 2 3 3 3 2	2 1 1 1 1 3 5 5	D 3 2 2 3 3 4 4 4	3 2 2 2 3 3 4 2	D 2 2 2 1 2 3 5 3	2 2 4 3 2 2 2 2	Q 1 1 1 2 2 1 1 0	1 1 2 2 2 2 4 3	5 4 3 3 2 2 1 1	1 2 2 2 3 3 2 3	2 1 1 1 1 1 2 1
15	2 2 1 2 1 2 2 1	3 2 2 2 2 2 2 5	D 5 3 3 3 2 3 5 4	4 2 2 1 2 2 2 1	3 2 2 2 3 3 4 1	D 4 2 2 3 3 2 2 2	2 3 3 3 2 3 2 3	Q 1 1 2 2 0 1 1 1	2 2 1 1 1 1 1 2	3 3 2 2 2 3 2 3	3 2 2 1 3 2 1 1	Q 0 0 1 1 1 0 1 1
16	Q 0 1 0 2 2 1 1 1	D 4 2 2 4 5 5 6 5	D 5 2 3 2 3 2 4 5	1 1 2 2 3 3 5 4	2 3 2 3 3 3 3 2	2 2 2 2 2 2 1 2	3 2 2 2 3 2 2 1	Q 0 0 1 1 2 1 2 4	Q 0 0 0 1 1 2 2 0	3 1 2 2 3 3 5 4	1 1 1 1 1 1 2 3	Q 1 0 1 1 1 0 0 1
17	Q 1 0 2 2 2 2 0 0	D 4 3 3 3 4 4 5 5	D 5 4 3 3 2 4 4 3	D 4 3 2 3 2 3 4 3	2 2 3 3 3 2 3 3	1 2 2 2 2 3 3 1	1 1 1 1 1 1 2 2	2 3 1 1 2 2 2 3	Q 1 1 0 2 2 1 1 1	3 2 2 4 3 4 4 4	1 1 1 1 0 1 1 1	1 0 1 1 1 2 2 3
18	0 0 0 1 1 2 1 3	D 4 3 3 4 3 4 5 4	2 2 2 2 2 3 3 3	3 2 2 2 1 1 1 1	1 2 2 2 2 2 2 1	2 2 2 2 2 2 2 2	Q 1 1 1 0 2 2 1 2	2 3 1 1 2 2 2 2	2 1 2 3 3 2 2 1	2 2 2 2 2 2 2 3	Q 2 0 1 1 1 2 1 1	3 3 2 1 2 2 2 2
19	4 2 2 3 1 2 1 2	D 3 3 2 3 3 3 4 2	2 2 3 3 3 4 2 1	Q 0 1 1 1 1 1 1 0	1 1 2 2 2 3 2 1	2 2 2 1 1 2 2 1	1 1 1 1 2 2 1 5	1 1 1 1 2 2 2 1	1 0 1 3 2 2 2 3	3 2 1 1 2 2 1 1	Q 0 0 0 1 1 1 2 1	1 2 1 1 1 2 3 1
20	D 0 1 2 3 3 4 4 5	3 1 2 2 2 1 0 1	1 2 2 2 3 4 4 2	Q 0 2 1 1 1 2 2 1	3 2 1 2 1 1 1 2	Q 1 1 2 1 2 3 2 1	D 5 4 3 2 3 3 2 1	2 2 2 1 1 2 1 0	4 3 3 3 2 3 3 3	Q 2 0 1 1 1 1 1 0	Q 0 0 1 1 1 1 1 1	1 2 1 1 1 2 1 3
21	D 4 4 4 3 2 3 5 5	Q 1 1 1 0 1 1 2 2	2 1 2 2 3 3 2 3	0 1 2 2 1 2 2 1	D 2 3 4 3 3 4 2 1	Q 1 1 1 2 2 2 2 0	1 0 1 2 2 3 2 2	0 1 1 2 3 3 3 3	4 2 2 3 2 1 2 1	Q 0 1 1 2 1 1 0 0	1 1 1 1 2 2 2 3	D 3 2 1 3 4 6 4 4
22	3 3 3 3 2 2 3 3	0 0 0 1 2 1 1 1	3 2 2 2 2 2 1 2	2 1 1 3 4 3 2 4	1 2 2 2 2 2 1 0	1 2 1 2 2 3 5 4	1 1 2 2 3 3 3 2	Q 2 1 2 2 2 1 2 1	2 1 1 1 1 1 0 0	Q 1 0 1 2 2 2 2 2	1 1 1 2 2 4 4 5	D 5 4 2 3 3 3 4 3
23	1 3 3 2 3 3 2 2	2 1 1 1 1 1 2 3	2 3 3 2 2 1 2 3	1 2 1 2 2 2 3 5	Q 1 1 1 2 1 2 2 0	2 3 2 1 2 3 3 3	2 3 3 2 2 2 2 2	D 1 2 1 3 4 3 5 4	Q 1 1 1 1 2 2 1 1	0 2 2 2 2 2 3 4	4 2 2 1 2 2 4 3	3 3 2 3 3 3 4 4
24	3 2 2 1 2 3 4 2	2 1 1 1 2 2 2 2	3 2 1 1 2 2 2 2	2 2 2 1 2 4 3 1	1 1 1 2 1 1 2 1	D 3 3 2 2 2 2 2 3	2 2 2 2 2 4 4 4	D 5 3 2 4 4 3 2 3	1 1 1 2 2 1 3 3	3 3 2 2 4 3 3 5	D 4 2 2 3 5 3 4 3	3 2 2 2 3 3 2 3
25	Q 1 0 0 0 1 2 0 0	2 2 1 2 1 1 2 3	Q 3 2 1 2 2 2 1 0	1 1 1 2 2 1 1 0	Q 1 2 1 2 1 1 1 0	2 1 1 1 2 2 2 3	D 4 3 3 2 3 4 2 2	3 2 2 2 2 3 3 3	3 4 2 4 3 3 5 5	D 4 4 2 4 6 6 5 6	D 4 5 4 3 4 4 5 3	3 3 2 4 4 4 4 3
26	0 0 1 2 1 2 2 1	4 2 1 1 2 1 1 0	Q 0 0 1 1 1 2 1 1	1 1 1 2 2 1 3 3	Q 0 0 0 1 1 2 2 1	2 1 2 2 2 3 3 4	Q 1 1 1 1 1 2 2 1	2 2 1 1 1 2 2 2	4 3 2 3 3 3 4 5	D 3 3 3 5 5 6 5 4	2 2 2 2 2 3 3 3	D 4 2 2 3 4 4 3 3
27	1 2 1 2 1 1 0 0	Q 0 1 1 1 1 1 1 1	3 2 3 3 3 4 3 2	1 2 2 1 3 3 3 2	2 2 1 2 2 2 3 3	4 2 3 2 2 2 2 2	Q 0 1 0 1 2 1 2 2	2 2 1 2 1 1 1 1	D 5 3 3 5 5 5 3 4	D 4 3 3 2 3 5 4 4	2 3 2 2 2 1 3 3	3 2 2 2 2 1 3 3
28	0 0 2 2 1 2 1 1	Q 1 0 1 1 1 2 1 1	2 3 1 1 2 2 3 3	2 1 1 1 2 2 1 1	3 2 4 2 2 3 3 3	2 1 2 1 3 1 1 1	3 3 3 1 3 3 3 3	Q 0 0 0 1 1 1 1 1	D 4 4 2 4 3 4 6 4	3 2 3 2 2 3 3 4	2 1 1 1 2 3 3 3	2 1 1 1 1 2 2 2
29	Q 1 1 0 0 1 1 1 1	Q 2 2 2 2 2 2 2 2	3 3 3 2 2 3 2 2	Q 1 1 1 1 1 2 1 1	1 1 1 2 2 2 2 2	2 1 1 1 1 2 2 1	3 4 3 2 2 3 3 2	2 0 1 2 2 2 2 3	D 3 4 3 3 3 5 5 3	D 4 4 3 3 4 3 3 2	2 1 1 1 1 1 2 3	2 1 1 1 1 2 1 1
30	Q 0 0 0 1 1 1 1 1		3 2 1 2 3 2 3 2	0 1 2 1 2 2 2 3	4 3 3 2 2 3 2 2	1 1 2 0 1 3 4 3	3 2 2 2 1 1 2 1	D 3 2 2 2 3 3 4 4	3 3 3 3 3 4 5 2	4 3 3 3 3 4 4 2	0 1 1 1 0 1 1 0	Q 0 1 1 1 1 1 1 2
31	2 2 2 2 2 2 3 4		2 2 2 1 1 2 1 2		2 1 2 2 2 3 3 3		Q 2 1 1 1 1 2 2 0	1 1 1 1 1 2 3 3		2 2 2 2 2 2 2 1		1 1 2 3 3 3 3 3

K ≤ 3 (88,664%)
Quiet to Unsettled
K = 4 (7,911%)
Active
K = 5 (3,082%)
Minor storm
K ≥ 6 (0,343%)
Moderate to Extreme storm

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 3-hourly local geomagnetic 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.