



Observatório Geofísico e Astronómico  
UNIVERSIDADE DE COIMBRA

## Coimbra Geomagnetic K indices - 2017 (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	33223433D	43234545D	33244566	22333433	22001112	11112333	13233332	11212211	33243224	31223324Q	10011012	12211231
2	12121211D	33332444D	43344353	22223421	12121112	21121112	D43443244Q	21102221	44422333	13222210	21222223	00111310
3	01232333D	33323343	33333421Q	01123111Q	11111110	11223421	22112112	01113444	22123212	22211112	32223112Q	00011101
4	12222344	23222232	42233334D	23433223	12211134Q	11111210	12211212	34434434	33122345	32111222Q	21122212	00122455
5	D42233344	23323442	32233354	21222223	31112111	11112221Q	10121211	33323443	42223332	31122213Q	10001111	D3233544
6	33223334	33223324	43133354	11123321	12122122	22212211	11212223	32243233	22233324	32122322Q	10001001	D23213332
7	D32324443	22113222	22233333	32221233	12221232	12111212	21111222	12222111	D3333336	10021221	D12333465	21223322
8	D22132334Q	10122211	31123244	33312234	21222222Q	21111212Q	21222211	11112221	D64456655	12112211	D54344545	11212122
9	32123322	21122232	42233333	43332212	21123322	31112101	D44252444Q	00112222Q	11011210Q	21102201	33233444	10012110
10	22211333	21112213	23332212Q	30112211	21113223Q	21111211	33221212	01122212	00011423Q	00011212	D33334444Q	00111101
11	22212232	31111010	10111124	11233243	23212212D	02224543	23322212	22122233	42222233D	34434544	32122112	12223232
12	22111112Q	10011231	33212211	31221220	21223222	22223322	11111211	34222133	21212344D	42345434	12111233	D33221343
13	Q11111212	31111221Q	11111210Q	10111231	12121122	32222320	11222212	32223223	5222220D	33135555	11111211	10122333
14	Q12112112Q	00001110	11112212	32223342	22232233	01123221Q	11110221	31012221	31134544D	53453433	33212333	21111111
15	21121221Q	00111121	11122124	31211221D	12233243	11111110	Q11111211Q	12111222D	53434455D	34244441	22233333	Q0122112
16	Q11111111	11203332	21111112Q	10121112	32223221D	12444335D	D2554555D	21122122	42244444	22212123D	34221123	00111113
17	Q10112201D	23332335Q	00111112Q	00121211	22221223D	33222344D	D34345411D	32443444	32123321	11122221	11122211	D23-----
18	12323444	54212233Q	10011111	20012223	43220222D	32222332	23211211	43133453	43333334	11122223	21222212	D-3333221
19	32232211	33212231Q	00011111	34311233D	33322333	22222101	01111221D	43434434	31122333	32212433	11222111	01111222
20	33222233	03212242Q	00111211D	45343333D	33334333Q	01111210	11132333D	34323433	33222221	32112122	10111334	21011121
21	31112344	22111213	23333554	11113455	22212222	01221222	33323323	22222223	11212123	22223334D	43333454Q	100-1100
22	32222223	32211331	43223545D	54345545D	22212233	21210232D	32442332	44222234Q	10112233	32111212	23123233Q	00111112
23	11111232	23223433	43222322D	43455444	23112132	10211223	32333324D	33233453Q	10112132	31122211	21233223	12221111
24	Q11111111D	43243323	22112210D	33332343Q	11111110	21222333	32222233	33232211	11111233	11234534	31111244	22233433
25	33211111	22212212	01111212	32223233Q	00121212D	22333322	21223223	01122322Q	22110211	33422234	32121110	31122332
26	00223553Q	11111210	20112212	31212223Q	10111210	22121232	33422221Q	11111211Q	11111103	32333441Q	00101211	22112244
27	D33334322	12122133D	34455564	32321121	11112445	21112221	12212222	21122333Q	32333455	31111122	21112221	22112322
28	22111123	32221133D	44333334	11122223D	45553221	22212110	11112332Q	11112211D	55543444	22122111	32222121	11122322
29	22112221		33333434	21121122	11123331	12221111	10111111	11122243	32223233Q	12111110	21111123	10011231
30	01212223		33223344	11111223	33211111Q	01212212	11111120	22101110	22323333Q	11011100	23112323	12112213
31	D22333545		D44333333		Q01112122		Q11211211D	24544444		Q10012100		00111123

K <= 2 (67,926 %) Inactive to Quiet	K = 3 (20,914 %) Unsettled	K = 4 (8,242 %) Active	K = 5 (2,644 %) Minor storm	K = 6 (0,275 %) Moderate storm	K >= 7 (0,000 %) Strong to Extreme storm
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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.