



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	33223433	D43234545	D33244566	22333433	22001112	11112333	13233332	11212211	33243224	31223324	10011012	12211231
2	12121211	D33332444	D43344353	22223421	12121112	21121112	D43443244	Q21102221	44422333	13222210	21222223	00111310
3	01232333	D33323343	33333421	Q01123111	Q1111110	11223421	22112112	01113444	22123212	22211112	32223112	Q00011101
4	12222344	23222232	42233334	D23433223	12211134	Q11111210	12211212	34434434	33122345	32111222	Q21122212	00122455
5	D42233344	23323442	32233354	21222223	31112111	11112221	Q10121211	33323443	42223332	31122213	Q10001111	D32335544
6	33223334	33223324	43133354	11123321	12122122	22212211	11212223	32243233	22233324	321 - - - -	Q10001001	D23213332
7	D32324443	22113222	22233333	32221233	12221232	12111212	21111222	12222111	33333336	10021221	D12333465	21223322
8	D22132334	Q10122211	31123244	33312234	21222222	Q21111212	21222211	11112221	D64456655	12112211	D54344545	11212122
9	32123322	21122232	42233333	43332212	21123322	31112101	D44252444	Q00112222	Q11011210	Q21102201	33233444	10012110
10	22211333	21112213	23332212	Q30112211	21113223	Q21111211	33221212	01122212	00011423	Q00011212	D33334444	Q00111101
11	22212232	31111010	10111124	11233243	23212212	D02224543	23322212	22122233	42222233	D34434544	32122112	12223232
12	22111112	Q10011231	33212211	31221220	21223222	22223322	11111211	34222133	21212344	D42345434	12111233	D33221343
13	Q11111212	31111221	Q11111210	Q10111231	12121122	32222320	11222212	32223223	52222220	D33135555	11111211	10122333
14	Q12112112	Q00001110	11112212	32223342	22232233	01123221	Q11110221	31012221	31134544	D53453433	33212333	21111111
15	21121221	Q00111121	11122124	31211221	D12233243	11111110	Q11111211	Q12111222	D53434455	34244441	22233333	Q00122112
16	Q11111111	11203332	21111112	Q10121112	32223221	D12444335	22554555	21122122	44244444	22212123	D34221123	00111113
17	Q10112201	D23332335	Q01111112	Q00121211	22221223	D33222344	34345411	32443444	32123321	11122221	11122112	D23 - - - -
18	12323444	54212233	Q10011111	20012223	43220222	D3222332	23211211	43133453	43333334	11122223	2122212	D-3333221
19	32232211	33212231	Q00011111	34311233	D33322333	22222101	Q01111221	D43434434	31122333	32212433	11222111	01111222
20	33222233	Q3212242	Q00111211	D45343333	D33334333	Q01111210	11132333	D34323433	33222221	32112122	10111334	21011121
21	31112344	22111213	23333554	11113455	22212222	01221222	33323323	22222233	11212123	22223334	D43333454	Q100 - 1100
22	32222223	32211331	43223545	54345545	D22212233	21210232	D32442332	44222234	Q10112233	32111212	23123233	Q00111112
23	11111232	23223433	43222322	D43455444	23112132	10211223	32333324	D33233453	Q10112132	31122211	21233223	12221111
24	Q11111111	D43243323	22112210	D33332343	Q11111110	21222333	32222233	33232211	11111233	11234534	31111244	22233433
25	33211111	22212212	01111212	32223233	Q00121212	D22333322	21223223	01122322	Q22110211	33422234	32121110	31122332
26	00223553	Q11111210	20112212	31212223	Q10111210	22121232	33422221	Q11112211	Q11111103	32333441	Q00101211	22112244
27	D53334322	12122133	D34455564	32321211	11112445	21111222	12212222	21122333	D32333455	31111122	21112221	22112322
28	22111122	32221133	D44333334	11122223	D45553221	22212110	11112332	Q11112211	D55543444	22122111	32222121	11122322
29	22112221		33333434	11122122	11123331	12221111	10111111	11122243	32223233	Q12111110	21111123	10011231
30	01212223		33223344	11111223	33211111	Q01212212	11111120	22101110	22323333	Q11011100	23112323	12112213
31	D22333545		D44333333		Q01112122		Q11211211	D24544444		Q10012100		00111123

K <= 2 (67,905%) Inactive to Quiet	K = 3 (20,915%) Unsettled	K = 4 (8,256%) Active	K = 5 (2,649%) Minor storm	K = 6 (0,275%) Moderate storm	K >= 7 (0,000%) Strong to Extreme storm
---------------------------------------	------------------------------	--------------------------	-------------------------------	----------------------------------	--

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.