

The Earth according to WGS 84

(every degree of latitude)

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See [how WGS 84 defines the Earth](#) (9 KB) etc.

For those wanting more: [A similar table as below for every ten minute of latitude](#) (116 KB).

See [different degree formats: resolutions and conversions](#) (14 KB + 13 KB = 27 KB).

For those preferring Imperial units:

[This table](#) (20 KB) lists the lengths in feet of 1 minute, 1 second and $\frac{1}{1000}$ minute of latitude and longitude. (The table was originally created by [Eric Cloninger](#).)

Latitude	Distance to nearest pole		1 minute of latitude	1 minute of longitude	Circumference of parallel of latitude	
	Int. naut. miles	Kilometres	Metres		Kilometres	Int. naut. miles
90°	0	0	1861.57	0	0	0
89°	60.310	111.694	1861.56	32.49	701.758	378.919
88°	120.619	223.387	1861.54	64.97	1403.297	757.720
87°	180.928	335.079	1861.51	97.43	2104.401	1136.285
86°	241.236	446.769	1861.47	129.85	2804.850	1514.498
85°	301.542	558.456	1861.42	162.24	3504.428	1892.240
84°	361.846	670.139	1861.36	194.58	4202.917	2269.394
83°	422.148	781.819	1861.29	226.86	4900.101	2645.843
82°	482.448	893.493	1861.20	259.06	5595.762	3021.470
81°	542.744	1005.163	1861.11	291.19	6289.685	3396.158
80°	603.038	1116.826	1861.00	323.22	6981.655	3769.792
79°	663.327	1228.482	1860.88	355.16	7671.457	4142.255
78°	723.613	1340.131	1860.75	386.99	8358.877	4513.432
77°	783.894	1451.772	1860.61	418.69	9043.702	4883.209
76°	844.171	1563.405	1860.47	450.26	9725.721	5251.469
75°	904.443	1675.028	1860.31	481.70	10404.722	5618.100
74°	964.709	1786.642	1860.14	512.99	11080.495	5982.989

73°	1024.970	1898.244	1859.96	544.11	11752.832	6346.022
72°	1085.225	2009.836	1859.77	575.07	12421.525	6707.087
71°	1145.473	2121.417	1859.57	605.85	13086.368	7066.073
70°	1205.715	2232.985	1859.37	636.44	13747.155	7422.870
69°	1265.951	2344.541	1859.15	666.84	14403.683	7777.367
68°	1326.179	2456.083	1858.93	697.03	15055.751	8129.455
67°	1386.400	2567.612	1858.70	727.00	15703.157	8479.026
66°	1446.613	2679.127	1858.46	756.75	16345.703	8825.973
65°	1506.818	2790.627	1858.21	786.26	16983.191	9170.190
64°	1567.015	2902.112	1857.96	815.53	17615.427	9511.570
63°	1627.204	3013.581	1857.69	844.55	18242.217	9850.009
62°	1687.384	3125.035	1857.43	873.30	18863.368	10185.404
61°	1747.555	3236.472	1857.15	901.79	19478.692	10517.652
60°	1807.718	3347.893	1856.87	930.00	20088.001	10846.653
59°	1867.871	3459.297	1856.59	957.92	20691.108	11172.304
58°	1928.015	3570.683	1856.29	985.55	21287.830	11494.509
57°	1988.149	3682.052	1856.00	1012.87	21877.987	11813.168
56°	2048.274	3793.403	1855.70	1039.88	22461.398	12128.185
55°	2108.388	3904.735	1855.39	1066.57	23037.887	12439.464
54°	2168.493	4016.050	1855.08	1092.93	23607.279	12746.911
53°	2228.588	4127.345	1854.77	1118.95	24169.402	13050.433
52°	2288.673	4238.622	1854.46	1144.63	24724.086	13349.938
51°	2348.747	4349.880	1854.14	1169.96	25271.164	13645.337
50°	2408.811	4461.119	1853.82	1194.93	25810.471	13936.540
49°	2468.865	4572.338	1853.50	1219.53	26341.846	14223.459
48°	2528.908	4683.538	1853.17	1243.76	26865.127	14506.008
47°	2588.941	4794.719	1852.85	1267.60	27380.159	14784.103
46°	2648.963	4905.880	1852.52	1291.05	27886.788	15057.661
45°	2708.975	5017.021	1852.20	1314.11	28384.861	15326.599
44°	2768.976	5128.143	1851.87	1336.77	28874.230	15590.837
43°	2828.966	5239.246	1851.55	1359.02	29354.748	15850.296
42°	2888.946	5350.329	1851.22	1380.85	29826.274	16104.900
41°	2948.916	5461.392	1850.90	1402.25	30288.667	16354.572
40°	3008.875	5572.437	1850.58	1423.23	30741.789	16599.238
39°	3068.824	5683.462	1850.26	1443.77	31185.505	16838.826

38°	3128.762	5794.468	1849.94	1463.87	31619.686	17073.265
37°	3188.690	5905.455	1849.63	1483.53	32044.202	17302.485
36°	3248.609	6016.423	1849.32	1502.73	32458.928	17526.419
35°	3308.517	6127.373	1849.01	1521.47	32863.741	17745.001
34°	3368.415	6238.304	1848.71	1539.75	33258.523	17958.166
33°	3428.303	6349.218	1848.41	1557.55	33643.157	18165.852
32°	3488.182	6460.113	1848.11	1574.89	34017.531	18367.997
31°	3548.052	6570.991	1847.82	1591.74	34381.534	18564.543
30°	3607.912	6681.852	1847.54	1608.10	34735.061	18755.432
29°	3667.763	6792.696	1847.26	1623.98	35078.007	18940.609
28°	3727.605	6903.524	1846.99	1639.36	35410.272	19120.018
27°	3787.438	7014.335	1846.73	1654.25	35731.760	19293.607
26°	3847.263	7125.131	1846.47	1668.63	36042.377	19461.327
25°	3907.080	7235.912	1846.21	1682.50	36342.033	19623.128
24°	3966.888	7346.677	1845.97	1695.86	36630.639	19778.963
23°	4026.689	7457.428	1845.73	1708.71	36908.113	19928.787
22°	4086.482	7568.165	1845.50	1721.04	37174.374	20072.556
21°	4146.268	7678.889	1845.28	1732.84	37429.344	20210.229
20°	4206.047	7789.599	1845.07	1744.12	37672.951	20341.766
19°	4265.819	7900.298	1844.87	1754.87	37905.123	20467.129
18°	4325.585	8010.984	1844.67	1765.08	38125.794	20586.282
17°	4385.345	8121.659	1844.49	1774.76	38334.899	20699.190
16°	4445.099	8232.322	1844.31	1783.91	38532.379	20805.820
15°	4504.847	8342.976	1844.14	1792.51	38718.176	20906.143
14°	4564.590	8453.620	1843.99	1800.57	38892.237	21000.128
13°	4624.328	8564.255	1843.84	1808.08	39054.512	21087.750
12°	4684.061	8674.881	1843.70	1815.04	39204.954	21168.982
11°	4743.790	8785.500	1843.58	1821.46	39343.521	21243.802
10°	4803.516	8896.111	1843.46	1827.32	39470.171	21312.187
9°	4863.237	9006.715	1843.36	1832.63	39584.869	21374.120
8°	4922.956	9117.314	1843.26	1837.39	39687.582	21429.580
7°	4982.671	9227.907	1843.18	1841.59	39778.281	21478.554
6°	5042.384	9338.496	1843.11	1845.23	39856.939	21521.026
5°	5102.095	9449.080	1843.05	1848.31	39923.534	21556.984
4°	5161.804	9559.661	1842.99	1850.84	39978.047	21586.419

3°	5221.512	9670.240	1842.96	1852.80	40020.462	21609.321
2°	5281.218	9780.816	1842.93	1854.20	40050.767	21625.684
1°	5340.924	9891.391	1842.91	1855.04	40068.954	21635.504
0°	5400.629	10001.966	1842.90	1855.32	<u>40075.017</u>	<u>21638.778</u>
Circumference of Earth through poles =			An average minute of latitude =			
<u>21602.518 int. n. mi. =</u> <u>40007.863 km</u>			1852.216 m			

An **international nautical mile** (int. naut. mile) is defined to be **1852 metres exactly** (IHC, Monaco, 1929).

The fundamental formulae for the calculations may be found in for instance the *Geocentric Datum of Australia – Technical Manual*.

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Calculated by [Sigurd Humerfelt](#) (20th November 1999, last updated 20th December 2005) (881).