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THEORETICAL GRAVITY AT SEA LEVEL FOR EACH MINUTE OF LATITUDE

BY THE INTERNATIONAL FORMULA

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON
1942

Acceleration of gravity at sea level

by International formula

$$\gamma_0 = 978.0490\ (1 + 0.0052884 \sin^2 \phi - 0.0000059 \sin^2 2\phi)$$

$$= 980.63227192 - 2.58615717 \cos 2\phi + 0.0028852446 \cos 4\phi$$

$$\gamma_{45} = 980.62939\,[1 - .00263724 \cos 2\phi + .00000588 \cos^2 2\phi]$$

φ °	'	0	1	2	3	4	5	6	7	8	9
0	00	978.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490
	10	.0490	.0491	.0491	.0491	.0491	.0491	.0491	.0491	.0491	.0492
	20	.0492	.0492	.0492	.0492	.0493	.0493	.0493	.0493	.0493	.0494
	30	.0494	.0494	.0494	.0495	.0495	.0495	.0496	.0496	.0496	.0497
	40	.0497	.0497	.0498	.0498	.0498	.0499	.0499	.0500	.0500	.0500
	50	.0501	.0501	.0502	.0502	.0503	.0503	.0504	.0504	.0505	.0505
1	00	.0506	.0506	.0507	.0507	.0508	.0508	.0509	.0510	.0510	.0511
	10	.0511	.0512	.0513	.0513	.0514	.0515	.0515	.0516	.0517	.0517
	20	.0518	.0519	.0519	.0520	.0521	.0521	.0522	.0523	.0524	.0525
	30	.0525	.0526	.0527	.0528	.0528	.0529	.0530	.0531	.0532	.0533
	40	.0534	.0534	.0535	.0536	.0537	.0538	.0539	.0540	.0541	.0542
	50	.0543	.0544	.0545	.0546	.0547	.0548	.0549	.0550	.0551	.0552
2	00	.0553	.0554	.0555	.0556	.0557	.0558	.0559	.0560	.0561	.0562
	10	.0564	.0565	.0566	.0567	.0568	.0569	.0571	.0572	.0573	.0574
	20	.0575	.0577	.0578	.0579	.0580	.0582	.0583	.0584	.0585	.0587
	30	.0588	.0589	.0591	.0592	.0593	.0595	.0596	.0597	.0599	.0600
	40	.0601	.0603	.0604	.0606	.0607	.0609	.0610	.0611	.0613	.0614
	50	.0616	.0617	.0619	.0620	.0622	.0623	.0625	.0626	.0628	.0629
3	00	.0631	.0633	.0634	.0636	.0637	.0639	.0641	.0642	.0644	.0645
	10	.0647	.0649	.0650	.0652	.0654	.0656	.0657	.0659	.0661	.0662
	20	.0664	.0666	.0668	.0669	.0671	.0673	.0675	.0676	.0678	.0680
	30	.0682	.0684	.0686	.0687	.0689	.0691	.0693	.0695	.0697	.0699
	40	.0701	.0703	.0704	.0706	.0708	.0710	.0712	.0714	.0716	.0718
	50	.0720	.0722	.0724	.0726	.0728	.0730	.0732	.0734	.0736	.0738
4	00	.0741	.0743	.0745	.0747	.0749	.0751	.0753	.0755	.0758	.0760
	10	.0762	.0764	.0766	.0768	.0771	.0773	.0775	.0777	.0779	.0782
	20	.0784	.0786	.0789	.0791	.0793	.0795	.0798	.0800	.0802	.0805
	30	.0807	.0809	.0812	.0814	.0816	.0819	.0821	.0824	.0826	.0828
	40	.0831	.0833	.0836	.0838	.0841	.0843	.0846	.0848	.0851	.0853
	50	.0856	.0858	.0861	.0863	.0866	.0868	.0871	.0873	.0876	.0879
5	00	.0881	.0884	.0886	.0889	.0892	.0894	.0897	.0900	.0902	.0905
	10	.0908	.0910	.0913	.0916	.0918	.0921	.0924	.0927	.0929	.0932
	20	.0935	.0938	.0940	.0943	.0946	.0949	.0952	.0955	.0957	.0960
	30	.0963	.0966	.0969	.0972	.0975	.0977	.0980	.0983	.0986	.0989
	40	.0992	.0995	.0998	.1001	.1004	.1007	.1010	.1013	.1016	.1019
	50	.1022	.1025	.1028	.1031	.1034	.1037	.1040	.1043	.1046	.1050
6	00	.1053	.1056	.1059	.1062	.1065	.1068	.1071	.1075	.1078	.1081
	10	.1084	.1087	.1091	.1094	.1097	.1100	.1104	.1107	.1110	.1113
	20	.1117	.1120	.1123	.1127	.1130	.1133	.1137	.1140	.1143	.1147
	30	.1150	.1153	.1157	.1160	.1163	.1167	.1170	.1174	.1177	.1181
	40	.1184	.1188	.1191	.1194	.1198	.1201	.1205	.1208	.1212	.1215
	50	.1219	.1223	.1226	.1230	.1233	.1237	.1240	.1244	.1248	.1251
7	00	.1255	.1258	.1262	.1266	.1269	.1273	.1277	.1280	.1284	.1288
	10	.1292	.1295	.1299	.1303	.1306	.1310	.1314	.1318	.1321	.1325
	20	.1329	.1333	.1337	.1340	.1344	.1348	.1352	.1356	.1360	.1363
	30	.1367	.1371	.1375	.1379	.1383	.1387	.1391	.1395	.1399	.1403
	40	.1407	.1411	.1414	.1418	.1422	.1426	.1430	.1434	.1439	.1443
	50	.1447	.1451	.1455	.1459	.1463	.1467	.1471	.1475	.1479	.1483
8	00	.1487	.1492	.1496	.1500	.1504	.1508	.1512	.1517	.1521	.1525
	10	.1529	.1533	.1538	.1542	.1546	.1550	.1555	.1559	.1563	.1567
	20	.1572	.1576	.1580	.1585	.1589	.1593	.1598	.1602	.1606	.1611
	30	.1615	.1619	.1624	.1628	.1633	.1637	.1642	.1646	.1650	.1655
	40	.1659	.1664	.1668	.1673	.1677	.1682	.1686	.1691	.1695	.1700
	50	.1704	.1709	.1714	.1718	.1723	.1727	.1732	.1736	.1741	.1746
9	00	.1750	.1755	.1760	.1764	.1769	.1774	.1778	.1783	.1788	.1792
	10	.1797	.1802	.1806	.1811	.1816	.1821	.1825	.1830	.1835	.1840
	20	.1845	.1849	.1854	.1859	.1864	.1869	.1873	.1878	.1883	.1888
	30	.1893	.1898	.1903	.1908	.1912	.1917	.1922	.1927	.1932	.1937
	40	.1942	.1947	.1952	.1957	.1962	.1967	.1972	.1977	.1982	.1987
	50	.1992	.1997	.2002	.2007	.2012	.2017	.2022	.2028	.2033	.2038
10	00	978.2043	.2048	.2053	.2058	.2063	.2069	.2074	.2079	.2084	.2089

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
10	00	978.2043	.2048	.2053	.2058	.2063	.2069	.2074	.2079	.2084	.2089
	10	.2095	.2100	.2105	.2110	.2115	.2121	.2126	.2131	.2136	.2142
	20	.2147	.2152	.2158	.2163	.2168	.2174	.2179	.2184	.2190	.2195
	30	.2200	.2206	.2211	.2216	.2222	.2227	.2233	.2238	.2244	.2249
	40	.2254	.2260	.2265	.2271	.2276	.2282	.2287	.2293	.2298	.2304
	50	.2309	.2315	.2320	.2326	.2332	.2337	.2343	.2348	.2354	.2359
11	00	.2365	.2371	.2376	.2382	.2388	.2393	.2399	.2405	.2410	.2416
	10	.2422	.2427	.2433	.2439	.2444	.2450	.2456	.2462	.2467	.2473
	20	.2479	.2485	.2491	.2496	.2502	.2508	.2514	.2520	.2525	.2531
	30	.2537	.2543	.2549	.2555	.2561	.2566	.2572	.2578	.2584	.2590
	40	.2596	.2602	.2608	.2614	.2620	.2626	.2632	.2638	.2644	.2650
	50	.2656	.2662	.2668	.2674	.2680	.2686	.2692	.2698	.2704	.2710
12	00	.2716	.2722	.2729	.2735	.2741	.2747	.2753	.2759	.2765	.2772
	10	.2778	.2784	.2790	.2796	.2802	.2809	.2815	.2821	.2827	.2834
	20	.2840	.2846	.2852	.2859	.2865	.2871	.2877	.2884	.2890	.2896
	30	.2903	.2909	.2915	.2922	.2928	.2935	.2941	.2947	.2954	.2960
	40	.2966	.2973	.2979	.2986	.2992	.2999	.3005	.3012	.3018	.3025
	50	.3031	.3037	.3044	.3051	.3057	.3064	.3070	.3077	.3083	.3090
13	00	.3096	.3103	.3109	.3116	.3123	.3129	.3136	.3142	.3149	.3156
	10	.3162	.3169	.3176	.3182	.3189	.3196	.3202	.3209	.3216	.3223
	20	.3229	.3236	.3243	.3249	.3256	.3263	.3270	.3277	.3283	.3290
	30	.3297	.3304	.3311	.3317	.3324	.3331	.3338	.3345	.3352	.3358
	40	.3365	.3372	.3379	.3386	.3393	.3400	.3407	.3414	.3421	.3428
	50	.3435	.3441	.3448	.3455	.3462	.3469	.3476	.3483	.3490	.3497
14	00	.3504	.3512	.3519	.3526	.3533	.3540	.3547	.3554	.3561	.3568
	10	.3575	.3582	.3589	.3597	.3604	.3611	.3618	.3625	.3632	.3640
	20	.3647	.3654	.3661	.3668	.3676	.3683	.3690	.3697	.3705	.3712
	30	.3719	.3726	.3734	.3741	.3748	.3755	.3763	.3770	.3777	.3785
	40	.3792	.3799	.3807	.3814	.3821	.3829	.3836	.3844	.3851	.3858
	50	.3866	.3873	.3881	.3888	.3896	.3903	.3911	.3918	.3925	.3933
15	00	.3940	.3948	.3955	.3963	.3970	.3978	.3986	.3993	.4001	.4008
	10	.4016	.4023	.4031	.4038	.4046	.4054	.4061	.4069	.4077	.4084
	20	.4092	.4099	.4107	.4115	.4122	.4130	.4138	.4146	.4153	.4161
	30	.4169	.4176	.4184	.4192	.4200	.4208	.4215	.4223	.4231	.4238
	40	.4246	.4254	.4262	.4270	.4277	.4285	.4293	.4301	.4309	.4317
	50	.4325	.4332	.4340	.4348	.4356	.4364	.4372	.4380	.4388	.4396
16	00	.4404	.4412	.4419	.4427	.4435	.4443	.4451	.4459	.4467	.4475
	10	.4483	.4491	.4499	.4507	.4516	.4524	.4532	.4540	.4548	.4556
	20	.4564	.4572	.4580	.4588	.4596	.4604	.4613	.4621	.4629	.4637
	30	.4645	.4653	.4662	.4670	.4678	.4686	.4694	.4703	.4711	.4719
	40	.4727	.4735	.4744	.4752	.4760	.4768	.4777	.4785	.4793	.4802
	50	.4810	.4818	.4827	.4835	.4843	.4852	.4860	.4868	.4877	.4885
17	00	.4893	.4902	.4910	.4919	.4927	.4935	.4944	.4952	.4961	.4969
	10	.4978	.4986	.4994	.5003	.5011	.5020	.5028	.5037	.5045	.5054
	20	.5062	.5071	.5080	.5088	.5097	.5105	.5114	.5122	.5131	.5140
	30	.5148	.5157	.5165	.5174	.5183	.5191	.5200	.5208	.5217	.5226
	40	.5234	.5243	.5252	.5260	.5269	.5278	.5287	.5295	.5304	.5313
	50	.5321	.5330	.5339	.5348	.5357	.5365	.5374	.5383	.5392	.5400
18	00	.5409	.5418	.5427	.5436	.5445	.5453	.5462	.5471	.5480	.5489
	10	.5498	.5507	.5516	.5524	.5533	.5542	.5551	.5560	.5569	.5578
	20	.5587	.5596	.5605	.5614	.5623	.5632	.5641	.5650	.5659	.5668
	30	.5677	.5686	.5695	.5704	.5713	.5722	.5731	.5740	.5749	.5758
	40	.5767	.5776	.5786	.5795	.5804	.5813	.5822	.5831	.5840	.5849
	50	.5859	.5868	.5877	.5886	.5895	.5905	.5914	.5923	.5932	.5941
19	00	.5951	.5960	.5969	.5978	.5988	.5997	.6006	.6015	.6025	.6034
	10	.6043	.6053	.6062	.6071	.6080	.6090	.6099	.6109	.6118	.6127
	20	.6137	.6146	.6155	.6165	.6174	.6183	.6193	.6202	.6212	.6221
	30	.6231	.6240	.6249	.6259	.6268	.6278	.6287	.6297	.6306	.6316
	40	.6325	.6335	.6344	.6354	.6363	.6373	.6382	.6392	.6402	.6411
	50	.6421	.6430	.6440	.6449	.6459	.6469	.6478	.6488	.6497	.6507
20	00	978.6517	.6526	.6536	.6546	.6555	.6565	.6575	.6584	.6594	.6604

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
20	00	978.6517	.6526	.6536	.6546	.6555	.6565	.6575	.6584	.6594	.6604
	10	.6613	.6623	.6633	.6643	.6652	.6662	.6672	.6682	.6691	.6701
	20	.6711	.6721	.6730	.6740	.6750	.6760	.6770	.6779	.6789	.6799
	30	.6809	.6819	.6829	.6838	.6848	.6858	.6868	.6878	.6888	.6898
	40	.6908	.6917	.6927	.6937	.6947	.6957	.6967	.6977	.6987	.6997
	50	.7007	.7017	.7027	.7037	.7047	.7057	.7067	.7077	.7087	.7097
21	00	.7107	.7117	.7127	.7137	.7147	.7157	.7167	.7177	.7187	.7198
	10	.7208	.7218	.7228	.7238	.7248	.7258	.7268	.7278	.7289	.7299
	20	.7309	.7319	.7329	.7339	.7350	.7360	.7370	.7380	.7390	.7401
	30	.7411	.7421	.7431	.7442	.7452	.7462	.7472	.7483	.7493	.7503
	40	.7513	.7524	.7534	.7544	.7555	.7565	.7575	.7586	.7596	.7606
	50	.7617	.7627	.7637	.7648	.7658	.7669	.7679	.7689	.7700	.7710
22	00	.7721	.7731	.7741	.7752	.7762	.7773	.7783	.7794	.7804	.7815
	10	.7825	.7836	.7846	.7857	.7867	.7878	.7888	.7899	.7909	.7920
	20	.7930	.7941	.7951	.7962	.7972	.7983	.7994	.8004	.8015	.8025
	30	.8036	.8047	.8057	.8068	.8078	.8089	.8100	.8110	.8121	.8132
	40	.8142	.8153	.8164	.8174	.8185	.8196	.8206	.8217	.8228	.8239
	50	.8249	.8260	.8271	.8281	.8292	.8303	.8314	.8325	.8335	.8346
23	00	.8357	.8368	.8378	.8389	.8400	.8411	.8422	.8433	.8443	.8454
	10	.8465	.8476	.8487	.8498	.8509	.8519	.8530	.8541	.8552	.8563
	20	.8574	.8585	.8596	.8607	.8618	.8628	.8639	.8650	.8661	.8672
	30	.8683	.8694	.8705	.8716	.8727	.8738	.8749	.8760	.8771	.8782
	40	.8793	.8804	.8815	.8826	.8837	.8848	.8860	.8871	.8882	.8893
	50	.8904	.8915	.8926	.8937	.8948	.8959	.8970	.8982	.8993	.9004
24	00	.9015	.9026	.9037	.9049	.9060	.9071	.9082	.9093	.9104	.9116
	10	.9127	.9138	.9149	.9161	.9172	.9183	.9194	.9206	.9217	.9228
	20	.9239	.9250	.9262	.9273	.9284	.9296	.9307	.9318	.9329	.9341
	30	.9352	.9363	.9375	.9386	.9397	.9409	.9420	.9431	.9443	.9454
	40	.9466	.9477	.9488	.9500	.9511	.9523	.9534	.9545	.9557	.9568
	50	.9580	.9591	.9603	.9614	.9625	.9637	.9648	.9660	.9671	.9683
25	00	.9694	.9706	.9717	.9729	.9740	.9752	.9763	.9775	.9786	.9798
	10	.9809	.9821	.9833	.9844	.9856	.9867	.9879	.9891	.9902	.9914
	20	978.9925	.9937	.9949	.9960	.9972	.9983	.9995	.***7	.**18	.**30
	30	979.0042	.0053	.0065	.0077	.0088	.0100	.0112	.0123	.0135	.0147
	40	.0158	.0170	.0182	.0194	.0205	.0217	.0229	.0241	.0252	.0264
	50	.0276	.0288	.0299	.0311	.0323	.0335	.0347	.0358	.0370	.0382
26	00	.0394	.0406	.0418	.0429	.0441	.0453	.0465	.0477	.0489	.0501
	10	.0512	.0524	.0536	.0548	.0560	.0572	.0584	.0596	.0608	.0620
	20	.0631	.0643	.0655	.0667	.0679	.0691	.0703	.0715	.0727	.0739
	30	.0751	.0763	.0775	.0787	.0799	.0811	.0823	.0835	.0847	.0859
	40	.0871	.0883	.0895	.0907	.0919	.0931	.0943	.0955	.0968	.0980
	50	.0992	.1004	.1016	.1028	.1040	.1052	.1064	.1076	.1089	.1101
27	00	.1113	.1125	.1137	.1149	.1161	.1174	.1186	.1198	.1210	.1222
	10	.1234	.1247	.1259	.1271	.1283	.1296	.1308	.1320	.1332	.1344
	20	.1357	.1369	.1381	.1393	.1406	.1418	.1430	.1443	.1455	.1467
	30	.1479	.1492	.1504	.1516	.1529	.1541	.1553	.1566	.1578	.1590
	40	.1602	.1615	.1627	.1640	.1652	.1664	.1677	.1689	.1701	.1714
	50	.1726	.1739	.1751	.1763	.1776	.1788	.1801	.1813	.1826	.1838
28	00	.1850	.1863	.1875	.1888	.1900	.1913	.1925	.1938	.1950	.1963
	10	.1975	.1988	.2000	.2013	.2025	.2038	.2050	.2063	.2075	.2088
	20	.2100	.2113	.2125	.2138	.2150	.2163	.2176	.2188	.2201	.2213
	30	.2226	.2238	.2251	.2264	.2276	.2289	.2301	.2314	.2327	.2339
	40	.2352	.2365	.2377	.2390	.2403	.2415	.2428	.2441	.2453	.2466
	50	.2479	.2491	.2504	.2517	.2529	.2542	.2555	.2567	.2580	.2593
29	00	.2606	.2618	.2631	.2644	.2657	.2669	.2682	.2695	.2708	.2720
	10	.2733	.2746	.2759	.2772	.2784	.2797	.2810	.2823	.2836	.2848
	20	.2861	.2874	.2887	.2900	.2912	.2925	.2938	.2951	.2964	.2977
	30	.2990	.3002	.3015	.3028	.3041	.3054	.3067	.3080	.3093	.3106
	40	.3118	.3131	.3144	.3157	.3170	.3183	.3196	.3209	.3222	.3235
	50	.3248	.3261	.3274	.3287	.3300	.3313	.3326	.3339	.3352	.3365
30	00	979.3378	.3391	.3404	.3417	.3430	.3443	.3456	.3469	.3482	.3495

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
30	00	979.3378	.3391	.3404	.3417	.3430	.3443	.3456	.3469	.3482	.3495
	10	.3508	.3521	.3534	.3547	.3560	.3573	.3586	.3599	.3612	.3625
	20	.3639	.3652	.3665	.3678	.3691	.3704	.3717	.3730	.3743	.3756
	30	.3770	.3783	.3796	.3809	.3822	.3835	.3848	.3862	.3875	.3888
	40	.3901	.3914	.3928	.3941	.3954	.3967	.3980	.3993	.4007	.4020
	50	.4033	.4046	.4060	.4073	.4086	.4099	.4112	.4126	.4139	.4152
31	00	.4165	.4179	.4192	.4205	.4219	.4232	.4245	.4258	.4272	.4285
	10	.4298	.4312	.4325	.4338	.4351	.4365	.4378	.4391	.4405	.4418
	20	.4431	.4445	.4458	.4471	.4485	.4498	.4512	.4525	.4538	.4552
	30	.4565	.4578	.4592	.4605	.4619	.4632	.4645	.4659	.4672	.4686
	40	.4699	.4712	.4726	.4739	.4753	.4766	.4780	.4793	.4806	.4820
	50	.4833	.4847	.4860	.4874	.4887	.4901	.4914	.4928	.4941	.4955
32	00	.4968	.4982	.4995	.5009	.5022	.5036	.5049	.5063	.5076	.5090
	10	.5103	.5117	.5130	.5144	.5157	.5171	.5185	.5198	.5212	.5225
	20	.5239	.5252	.5266	.5280	.5293	.5307	.5320	.5334	.5348	.5361
	30	.5375	.5388	.5402	.5416	.5429	.5443	.5456	.5470	.5484	.5497
	40	.5511	.5525	.5538	.5552	.5566	.5579	.5593	.5607	.5620	.5634
	50	.5648	.5661	.5675	.5689	.5702	.5716	.5730	.5744	.5757	.5771
33	00	.5785	.5798	.5812	.5826	.5840	.5853	.5867	.5881	.5895	.5908
	10	.5922	.5936	.5950	.5963	.5977	.5991	.6005	.6018	.6032	.6046
	20	.6060	.6074	.6087	.6101	.6115	.6129	.6143	.6156	.6170	.6184
	30	.6198	.6212	.6226	.6239	.6253	.6267	.6281	.6295	.6309	.6322
	40	.6336	.6350	.6364	.6378	.6392	.6406	.6420	.6433	.6447	.6461
	50	.6475	.6489	.6503	.6517	.6531	.6545	.6559	.6572	.6586	.6600
34	00	.6614	.6628	.6642	.6656	.6670	.6684	.6698	.6712	.6726	.6740
	10	.6754	.6768	.6782	.6796	.6809	.6823	.6837	.6851	.6865	.6879
	20	.6893	.6907	.6921	.6935	.6949	.6963	.6977	.6991	.7005	.7019
	30	.7033	.7047	.7062	.7076	.7090	.7104	.7118	.7132	.7146	.7160
	40	.7174	.7188	.7202	.7216	.7230	.7244	.7258	.7272	.7286	.7300
	50	.7314	.7329	.7343	.7357	.7371	.7385	.7399	.7413	.7427	.7441
35	00	.7455	.7470	.7484	.7498	.7512	.7526	.7540	.7554	.7569	.7583
	10	.7597	.7611	.7625	.7639	.7653	.7668	.7682	.7696	.7710	.7724
	20	.7738	.7753	.7767	.7781	.7795	.7809	.7824	.7838	.7852	.7866
	30	.7880	.7895	.7909	.7923	.7937	.7951	.7966	.7980	.7994	.8008
	40	.8023	.8037	.8051	.8065	.8080	.8094	.8108	.8122	.8137	.8151
	50	.8165	.8179	.8194	.8208	.8222	.8236	.8251	.8265	.8279	.8294
36	00	.8308	.8322	.8336	.8351	.8365	.8379	.8394	.8408	.8422	.8437
	10	.8451	.8465	.8480	.8494	.8508	.8522	.8537	.8551	.8565	.8580
	20	.8594	.8609	.8623	.8637	.8652	.8666	.8680	.8695	.8709	.8723
	30	.8738	.8752	.8766	.8781	.8795	.8810	.8824	.8838	.8853	.8867
	40	.8881	.8896	.8910	.8925	.8939	.8954	.8968	.8982	.8997	.9011
	50	.9026	.9040	.9054	.9069	.9083	.9098	.9112	.9127	.9141	.9156
37	00	.9170	.9184	.9199	.9213	.9228	.9242	.9257	.9271	.9286	.9300
	10	.9314	.9329	.9343	.9358	.9372	.9387	.9401	.9416	.9430	.9445
	20	.9459	.9474	.9488	.9503	.9517	.9532	.9546	.9561	.9575	.9590
	30	.9604	.9619	.9633	.9648	.9662	.9677	.9692	.9706	.9721	.9735
	40	.9750	.9764	.9779	.9793	.9808	.9822	.9837	.9851	.9866	.9881
	50	979.9895	.9910	.9924	.9939	.9953	.9968	.9983	.9997	.**12	.**26
38	00	980.0041	.0055	.0070	.0085	.0099	.0114	.0128	.0143	.0158	.0172
	10	.0187	.0201	.0216	.0231	.0245	.0260	.0274	.0289	.0304	.0318
	20	.0333	.0348	.0362	.0377	.0391	.0406	.0421	.0435	.0450	.0465
	30	.0479	.0494	.0509	.0523	.0538	.0553	.0567	.0582	.0597	.0611
	40	.0626	.0641	.0655	.0670	.0685	.0699	.0714	.0729	.0743	.0758
	50	.0773	.0787	.0802	.0817	.0831	.0846	.0861	.0875	.0890	.0905
39	00	.0919	.0934	.0949	.0964	.0978	.0993	.1008	.1023	.1037	.1052
	10	.1067	.1081	.1096	.1111	.1126	.1140	.1155	.1170	.1184	.1199
	20	.1214	.1229	.1243	.1258	.1273	.1288	.1302	.1317	.1332	.1347
	30	.1361	.1376	.1391	.1406	.1420	.1435	.1450	.1465	.1480	.1494
	40	.1509	.1524	.1539	.1553	.1568	.1583	.1598	.1613	.1627	.1642
	50	.1657	.1672	.1687	.1701	.1716	.1731	.1746	.1760	.1775	.1790
40	00	980.1805	.1820	.1835	.1849	.1864	.1879	.1894	.1909	.1923	.1938

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
40	00	980.1805	.1820	.1835	.1849	.1864	.1879	.1894	.1909	.1923	.1938
	10	.1953	.1968	.1983	.1997	.2012	.2027	.2042	.2057	.2072	.2086
	20	.2101	.2116	.2131	.2146	.2161	.2176	.2190	.2205	.2220	.2235
	30	.2250	.2265	.2279	.2294	.2309	.2324	.2339	.2354	.2369	.2383
	40	.2398	.2413	.2428	.2443	.2458	.2473	.2488	.2502	.2517	.2532
	50	.2547	.2562	.2577	.2592	.2607	.2621	.2636	.2651	.2666	.2681
41	00	.2696	.2711	.2726	.2741	.2755	.2770	.2785	.2800	.2815	.2830
	10	.2845	.2860	.2875	.2890	.2904	.2919	.2934	.2949	.2964	.2979
	20	.2994	.3009	.3024	.3039	.3054	.3068	.3083	.3098	.3113	.3128
	30	.3143	.3158	.3173	.3188	.3203	.3218	.3233	.3248	.3263	.3277
	40	.3292	.3307	.3322	.3337	.3352	.3367	.3382	.3397	.3412	.3427
	50	.3442	.3457	.3472	.3487	.3502	.3517	.3532	.3546	.3561	.3576
42	00	.3591	.3606	.3621	.3636	.3651	.3666	.3681	.3696	.3711	.3726
	10	.3741	.3756	.3771	.3786	.3801	.3816	.3831	.3846	.3861	.3876
	20	.3891	.3906	.3921	.3936	.3951	.3966	.3980	.3995	.4010	.4025
	30	.4040	.4055	.4070	.4085	.4100	.4115	.4130	.4145	.4160	.4175
	40	.4190	.4205	.4220	.4235	.4250	.4265	.4280	.4295	.4310	.4325
	50	.4340	.4355	.4370	.4385	.4400	.4415	.4430	.4445	.4460	.4475
43	00	.4490	.4505	.4520	.4535	.4550	.4565	.4580	.4595	.4610	.4625
	10	.4640	.4655	.4670	.4685	.4700	.4715	.4730	.4745	.4760	.4775
	20	.4790	.4805	.4820	.4835	.4850	.4866	.4881	.4896	.4911	.4926
	30	.4941	.4956	.4971	.4986	.5001	.5016	.5031	.5046	.5061	.5076
	40	.5091	.5106	.5121	.5136	.5151	.5166	.5181	.5196	.5211	.5226
	50	.5241	.5256	.5271	.5286	.5301	.5316	.5331	.5346	.5361	.5376
44	00	.5391	.5406	.5422	.5437	.5452	.5467	.5482	.5497	.5512	.5527
	10	.5542	.5557	.5572	.5587	.5602	.5617	.5632	.5647	.5662	.5677
	20	.5692	.5707	.5722	.5737	.5752	.5767	.5782	.5797	.5813	.5828
	30	.5843	.5858	.5873	.5888	.5903	.5918	.5933	.5948	.5963	.5978
	40	.5993	.6008	.6023	.6038	.6053	.6068	.6083	.6098	.6113	.6128
	50	.6143	.6159	.6174	.6189	.6204	.6219	.6234	.6249	.6264	.6279
45	00	.6294	.6309	.6324	.6339	.6354	.6369	.6384	.6399	.6414	.6429
	10	.6444	.6459	.6474	.6490	.6505	.6520	.6535	.6550	.6565	.6580
	20	.6595	.6610	.6625	.6640	.6655	.6670	.6685	.6700	.6715	.6730
	30	.6745	.6760	.6775	.6790	.6805	.6821	.6836	.6851	.6866	.6881
	40	.6896	.6911	.6926	.6941	.6956	.6971	.6986	.7001	.7016	.7031
	50	.7046	.7061	.7076	.7091	.7106	.7121	.7136	.7151	.7166	.7182
46	00	.7197	.7212	.7227	.7242	.7257	.7272	.7287	.7302	.7317	.7332
	10	.7347	.7362	.7377	.7392	.7407	.7422	.7437	.7452	.7467	.7482
	20	.7497	.7512	.7527	.7542	.7557	.7572	.7587	.7602	.7618	.7633
	30	.7648	.7663	.7678	.7693	.7708	.7723	.7738	.7753	.7768	.7783
	40	.7798	.7813	.7828	.7843	.7858	.7873	.7888	.7903	.7918	.7933
	50	.7948	.7963	.7978	.7993	.8008	.8023	.8038	.8053	.8068	.8083
47	00	.8098	.8113	.8128	.8143	.8158	.8173	.8188	.8203	.8218	.8233
	10	.8248	.8263	.8278	.8293	.8308	.8323	.8338	.8353	.8368	.8383
	20	.8398	.8413	.8428	.8443	.8458	.8473	.8488	.8503	.8518	.8533
	30	.8548	.8563	.8578	.8593	.8608	.8623	.8638	.8653	.8668	.8683
	40	.8698	.8713	.8728	.8743	.8758	.8773	.8788	.8803	.8818	.8833
	50	.8848	.8863	.8878	.8893	.8908	.8923	.8938	.8953	.8968	.8983
48	00	.8998	.9013	.9028	.9043	.9058	.9073	.9088	.9103	.9118	.9133
	10	.9147	.9162	.9177	.9192	.9207	.9222	.9237	.9252	.9267	.9282
	20	.9297	.9312	.9327	.9342	.9357	.9372	.9387	.9402	.9417	.9432
	30	.9446	.9461	.9476	.9491	.9506	.9521	.9536	.9551	.9566	.9581
	40	.9596	.9611	.9626	.9641	.9656	.9671	.9685	.9700	.9715	.9730
	50	.9745	.9760	.9775	.9790	.9805	.9820	.9835	.9850	.9864	.9879
49	00	980.9894	.9909	.9924	.9939	.9954	.9969	.9984	.9999	.**13	.**28
	10	981.0043	.0058	.0073	.0088	.0103	.0118	.0133	.0148	.0162	.0177
	20	.0192	.0207	.0222	.0237	.0252	.0267	.0281	.0296	.0311	.0326
	30	.0341	.0356	.0371	.0386	.0400	.0415	.0430	.0445	.0460	.0475
	40	.0490	.0504	.0519	.0534	.0549	.0564	.0579	.0594	.0608	.0623
	50	.0638	.0653	.0668	.0683	.0697	.0712	.0727	.0742	.0757	.0772
50	00	981.0786	.0801	.0816	.0831	.0846	.0861	.0875	.0890	.0905	.0920

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
50	00	981.0786	.0801	.0816	.0831	.0846	.0861	.0875	.0890	.0905	.0920
	10	.0935	.0949	.0964	.0979	.0994	.1009	.1024	.1038	.1053	.1068
	20	.1083	.1098	.1112	.1127	.1142	.1157	.1171	.1186	.1201	.1216
	30	.1231	.1245	.1260	.1275	.1290	.1305	.1319	.1334	.1349	.1364
	40	.1378	.1393	.1408	.1423	.1437	.1452	.1467	.1482	.1496	.1511
	50	.1526	.1541	.1555	.1570	.1585	.1600	.1614	.1629	.1644	.1659
51	00	.1673	.1688	.1703	.1717	.1732	.1747	.1762	.1776	.1791	.1806
	10	.1821	.1835	.1850	.1865	.1879	.1894	.1909	.1923	.1938	.1953
	20	.1968	.1982	.1997	.2012	.2026	.2041	.2056	.2070	.2085	.2100
	30	.2114	.2129	.2144	.2158	.2173	.2188	.2202	.2217	.2232	.2246
	40	.2261	.2276	.2290	.2305	.2320	.2334	.2349	.2364	.2378	.2393
	50	.2407	.2422	.2437	.2451	.2466	.2481	.2495	.2510	.2524	.2539
52	00	.2554	.2568	.2583	.2598	.2612	.2627	.2641	.2656	.2671	.2685
	10	.2700	.2714	.2729	.2744	.2758	.2773	.2787	.2802	.2816	.2831
	20	.2846	.2860	.2875	.2889	.2904	.2918	.2933	.2948	.2962	.2977
	30	.2991	.3006	.3020	.3035	.3049	.3064	.3078	.3093	.3108	.3122
	40	.3137	.3151	.3166	.3180	.3195	.3209	.3224	.3238	.3253	.3267
	50	.3282	.3296	.3311	.3325	.3340	.3354	.3369	.3383	.3398	.3412
53	00	.3427	.3441	.3456	.3470	.3485	.3499	.3514	.3528	.3542	.3557
	10	.3571	.3586	.3600	.3615	.3629	.3644	.3658	.3672	.3687	.3701
	20	.3716	.3730	.3745	.3759	.3773	.3788	.3802	.3817	.3831	.3846
	30	.3860	.3874	.3889	.3903	.3918	.3932	.3946	.3961	.3975	.3990
	40	.4004	.4018	.4033	.4047	.4061	.4076	.4090	.4105	.4119	.4133
	50	.4148	.4162	.4176	.4191	.4205	.4219	.4234	.4248	.4262	.4277
54	00	.4291	.4305	.4320	.4334	.4348	.4363	.4377	.4391	.4406	.4420
	10	.4434	.4449	.4463	.4477	.4491	.4506	.4520	.4534	.4549	.4563
	20	.4577	.4591	.4606	.4620	.4634	.4648	.4663	.4677	.4691	.4705
	30	.4720	.4734	.4748	.4762	.4777	.4791	.4805	.4819	.4834	.4848
	40	.4862	.4876	.4890	.4905	.4919	.4933	.4947	.4961	.4976	.4990
	50	.5004	.5018	.5032	.5047	.5061	.5075	.5089	.5103	.5117	.5132
55	00	.5146	.5160	.5174	.5188	.5202	.5217	.5231	.5245	.5259	.5273
	10	.5287	.5301	.5315	.5330	.5344	.5358	.5372	.5386	.5400	.5414
	20	.5428	.5442	.5457	.5471	.5485	.5499	.5513	.5527	.5541	.5555
	30	.5569	.5583	.5597	.5611	.5625	.5640	.5654	.5668	.5682	.5696
	40	.5710	.5724	.5738	.5752	.5766	.5780	.5794	.5808	.5822	.5836
	50	.5850	.5864	.5878	.5892	.5906	.5920	.5934	.5948	.5962	.5976
56	00	.5990	.6004	.6018	.6032	.6046	.6060	.6074	.6088	.6102	.6115
	10	.6129	.6143	.6157	.6171	.6185	.6199	.6213	.6227	.6241	.6255
	20	.6269	.6283	.6296	.6310	.6324	.6338	.6352	.6366	.6380	.6394
	30	.6408	.6421	.6435	.6449	.6463	.6477	.6491	.6505	.6518	.6532
	40	.6546	.6560	.6574	.6588	.6601	.6615	.6629	.6643	.6657	.6671
	50	.6684	.6698	.6712	.6726	.6740	.6753	.6767	.6781	.6795	.6808
57	00	.6822	.6836	.6850	.6864	.6877	.6891	.6905	.6919	.6932	.6946
	10	.6960	.6973	.6987	.7001	.7015	.7028	.7042	.7056	.7070	.7083
	20	.7097	.7111	.7124	.7138	.7152	.7165	.7179	.7193	.7206	.7220
	30	.7234	.7247	.7261	.7275	.7288	.7302	.7316	.7329	.7343	.7357
	40	.7370	.7384	.7397	.7411	.7425	.7438	.7452	.7465	.7479	.7493
	50	.7506	.7520	.7533	.7547	.7561	.7574	.7588	.7601	.7615	.7628
58	00	.7642	.7655	.7669	.7683	.7696	.7710	.7723	.7737	.7750	.7764
	10	.7777	.7791	.7804	.7818	.7831	.7845	.7858	.7872	.7885	.7899
	20	.7912	.7926	.7939	.7952	.7966	.7979	.7993	.8006	.8020	.8033
	30	.8047	.8060	.8073	.8087	.8100	.8114	.8127	.8141	.8154	.8167
	40	.8181	.8194	.8208	.8221	.8234	.8248	.8261	.8274	.8288	.8301
	50	.8314	.8328	.8341	.8355	.8368	.8381	.8395	.8408	.8421	.8434
59	00	.8448	.8461	.8474	.8488	.8501	.8514	.8528	.8541	.8554	.8567
	10	.8581	.8594	.8607	.8621	.8634	.8647	.8660	.8674	.8687	.8700
	20	.8713	.8726	.8740	.8753	.8766	.8779	.8793	.8806	.8819	.8832
	30	.8845	.8858	.8872	.8885	.8898	.8911	.8924	.8938	.8951	.8964
	40	.8977	.8990	.9003	.9016	.9030	.9043	.9056	.9069	.9082	.9095
	50	.9108	.9121	.9134	.9147	.9161	.9174	.9187	.9200	.9213	.9226
60	00	981.9239	.9252	.9265	.9278	.9291	.9304	.9317	.9330	.9343	.9356

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
60	00	981.9239	.9252	.9265	.9278	.9291	.9304	.9317	.9330	.9343	.9356
	10	.9369	.9382	.9395	.9408	.9421	.9434	.9447	.9460	.9473	.9486
	20	.9499	.9512	.9525	.9538	.9551	.9564	.9577	.9590	.9603	.9616
	30	.9629	.9642	.9655	.9668	.9680	.9693	.9706	.9719	.9732	.9745
	40	.9758	.9771	.9784	.9796	.9809	.9822	.9835	.9848	.9861	.9874
	50	981.9886	.9899	.9912	.9925	.9938	.9951	.9963	.9976	.9989	.***2
61	00	982.0015	.0027	.0040	.0053	.0066	.0078	.0091	.0104	.0117	.0129
	10	.0142	.0155	.0168	.0180	.0193	.0206	.0219	.0231	.0244	.0257
	20	.0269	.0282	.0295	.0307	.0320	.0333	.0345	.0358	.0371	.0383
	30	.0396	.0409	.0421	.0434	.0447	.0459	.0472	.0485	.0497	.0510
	40	.0522	.0535	.0548	.0560	.0573	.0585	.0598	.0610	.0623	.0636
	50	.0648	.0661	.0673	.0686	.0698	.0711	.0723	.0736	.0748	.0761
62	00	.0773	.0786	.0798	.0811	.0823	.0836	.0848	.0861	.0873	.0886
	10	.0898	.0911	.0923	.0936	.0948	.0960	.0973	.0985	.0998	.1010
	20	.1023	.1035	.1047	.1060	.1072	.1085	.1097	.1109	.1122	.1134
	30	.1146	.1159	.1171	.1183	.1196	.1208	.1220	.1233	.1245	.1257
	40	.1270	.1282	.1294	.1307	.1319	.1331	.1343	.1356	.1368	.1380
	50	.1393	.1405	.1417	.1429	.1441	.1454	.1466	.1478	.1490	.1503
63	00	.1515	.1527	.1539	.1551	.1564	.1576	.1588	.1600	.1612	.1624
	10	.1637	.1649	.1661	.1673	.1685	.1697	.1709	.1721	.1734	.1746
	20	.1758	.1770	.1782	.1794	.1806	.1818	.1830	.1842	.1854	.1867
	30	.1879	.1891	.1903	.1915	.1927	.1939	.1951	.1963	.1975	.1987
	40	.1999	.2011	.2023	.2035	.2047	.2059	.2071	.2083	.2095	.2107
	50	.2119	.2130	.2142	.2154	.2166	.2178	.2190	.2202	.2214	.2226
64	00	.2238	.2250	.2261	.2273	.2285	.2297	.2309	.2321	.2333	.2344
	10	.2356	.2368	.2380	.2392	.2404	.2415	.2427	.2439	.2451	.2463
	20	.2474	.2486	.2498	.2510	.2521	.2533	.2545	.2557	.2568	.2580
	30	.2592	.2604	.2615	.2627	.2639	.2650	.2662	.2674	.2685	.2697
	40	.2709	.2720	.2732	.2744	.2755	.2767	.2779	.2790	.2802	.2814
	50	.2825	.2837	.2848	.2860	.2872	.2883	.2895	.2906	.2918	.2930
65	00	.2941	.2953	.2964	.2976	.2987	.2999	.3010	.3022	.3033	.3045
	10	.3056	.3068	.3079	.3091	.3102	.3114	.3125	.3137	.3148	.3160
	20	.3171	.3183	.3194	.3205	.3217	.3228	.3240	.3251	.3263	.3274
	30	.3285	.3297	.3308	.3319	.3331	.3342	.3354	.3365	.3376	.3388
	40	.3399	.3410	.3422	.3433	.3444	.3456	.3467	.3478	.3489	.3501
	50	.3512	.3523	.3534	.3546	.3557	.3568	.3579	.3591	.3602	.3613
66	00	.3624	.3636	.3647	.3658	.3669	.3680	.3692	.3703	.3714	.3725
	10	.3736	.3747	.3759	.3770	.3781	.3792	.3803	.3814	.3825	.3836
	20	.3848	.3859	.3870	.3881	.3892	.3903	.3914	.3925	.3936	.3947
	30	.3958	.3969	.3980	.3991	.4002	.4013	.4024	.4035	.4046	.4057
	40	.4068	.4079	.4090	.4101	.4112	.4123	.4134	.4145	.4156	.4167
	50	.4178	.4189	.4200	.4210	.4221	.4232	.4243	.4254	.4265	.4276
67	00	.4287	.4297	.4308	.4319	.4330	.4341	.4352	.4362	.4373	.4384
	10	.4395	.4406	.4416	.4427	.4438	.4449	.4459	.4470	.4481	.4492
	20	.4503	.4513	.4524	.4535	.4545	.4556	.4567	.4577	.4588	.4599
	30	.4610	.4620	.4631	.4641	.4652	.4663	.4673	.4684	.4695	.4705
	40	.4716	.4727	.4737	.4748	.4758	.4769	.4779	.4790	.4801	.4811
	50	.4822	.4832	.4843	.4853	.4864	.4874	.4885	.4895	.4906	.4916
68	00	.4927	.4937	.4948	.4958	.4969	.4979	.4990	.5000	.5011	.5021
	10	.5031	.5042	.5052	.5063	.5073	.5083	.5094	.5104	.5115	.5125
	20	.5135	.5146	.5156	.5166	.5177	.5187	.5197	.5208	.5218	.5228
	30	.5239	.5249	.5259	.5269	.5280	.5290	.5300	.5310	.5321	.5331
	40	.5341	.5351	.5362	.5372	.5382	.5392	.5402	.5413	.5423	.5433
	50	.5443	.5453	.5464	.5474	.5484	.5494	.5504	.5514	.5524	.5534
69	00	.5545	.5555	.5565	.5575	.5585	.5595	.5605	.5615	.5625	.5635
	10	.5645	.5655	.5665	.5675	.5685	.5695	.5705	.5715	.5725	.5735
	20	.5745	.5755	.5765	.5775	.5785	.5795	.5805	.5815	.5825	.5835
	30	.5845	.5855	.5864	.5874	.5884	.5894	.5904	.5914	.5924	.5933
	40	.5943	.5953	.5963	.5973	.5983	.5992	.6002	.6012	.6022	.6032
	50	.6041	.6051	.6061	.6071	.6080	.6090	.6100	.6110	.6119	.6129
70	00	982.6139	.6148	.6158	.6168	.6177	.6187	.6197	.6207	.6216	.6226

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
70	00	982.6139	.6148	.6158	.6168	.6177	.6187	.6197	.6207	.6216	.6226
	10	.6235	.6245	.6255	.6264	.6274	.6284	.6293	.6303	.6312	.6322
	20	.6332	.6341	.6351	.6360	.6370	.6379	.6389	.6398	.6408	.6417
	30	.6427	.6436	.6446	.6455	.6465	.6474	.6484	.6493	.6503	.6512
	40	.6522	.6531	.6540	.6550	.6559	.6569	.6578	.6587	.6597	.6606
	50	.6616	.6625	.6634	.6644	.6653	.6662	.6672	.6681	.6690	.6699
71	00	.6709	.6718	.6727	.6737	.6746	.6755	.6764	.6774	.6783	.6792
	10	.6801	.6811	.6820	.6829	.6838	.6847	.6857	.6866	.6875	.6884
	20	.6893	.6902	.6912	.6921	.6930	.6939	.6948	.6957	.6966	.6975
	30	.6985	.6994	.7003	.7012	.7021	.7030	.7039	.7048	.7057	.7066
	40	.7075	.7084	.7093	.7102	.7111	.7120	.7129	.7138	.7147	.7156
	50	.7165	.7174	.7183	.7192	.7201	.7209	.7218	.7227	.7236	.7245
72	00	.7254	.7263	.7272	.7281	.7289	.7298	.7307	.7316	.7325	.7334
	10	.7342	.7351	.7360	.7369	.7378	.7386	.7395	.7404	.7413	.7421
	20	.7430	.7439	.7448	.7456	.7465	.7474	.7482	.7491	.7500	.7508
	30	.7517	.7526	.7534	.7543	.7552	.7560	.7569	.7577	.7586	.7595
	40	.7603	.7612	.7620	.7629	.7638	.7646	.7655	.7663	.7672	.7680
	50	.7689	.7697	.7706	.7714	.7723	.7731	.7740	.7748	.7757	.7765
73	00	.7774	.7782	.7790	.7799	.7807	.7816	.7824	.7833	.7841	.7849
	10	.7858	.7866	.7874	.7883	.7891	.7899	.7908	.7916	.7924	.7933
	20	.7941	.7949	.7958	.7966	.7974	.7982	.7991	.7999	.8007	.8015
	30	.8024	.8032	.8040	.8048	.8057	.8065	.8073	.8081	.8089	.8097
	40	.8106	.8114	.8122	.8130	.8138	.8146	.8154	.8162	.8171	.8179
	50	.8187	.8195	.8203	.8211	.8219	.8227	.8235	.8243	.8251	.8259
74	00	.8267	.8275	.8283	.8291	.8299	.8307	.8315	.8323	.8331	.8339
	10	.8347	.8355	.8363	.8371	.8378	.8386	.8394	.8402	.8410	.8418
	20	.8426	.8434	.8441	.8449	.8457	.8465	.8473	.8480	.8488	.8496
	30	.8504	.8512	.8519	.8527	.8535	.8543	.8550	.8558	.8566	.8574
	40	.8581	.8589	.8597	.8604	.8612	.8620	.8627	.8635	.8643	.8650
	50	.8658	.8666	.8673	.8681	.8688	.8696	.8704	.8711	.8719	.8726
75	00	.8734	.8741	.8749	.8756	.8764	.8771	.8779	.8786	.8794	.8801
	10	.8809	.8816	.8824	.8831	.8839	.8846	.8854	.8861	.8868	.8876
	20	.8883	.8891	.8898	.8905	.8913	.8920	.8928	.8935	.8942	.8950
	30	.8957	.8964	.8972	.8979	.8986	.8993	.9001	.9008	.9015	.9023
	40	.9030	.9037	.9044	.9051	.9059	.9066	.9073	.9080	.9087	.9095
	50	.9102	.9109	.9116	.9123	.9130	.9138	.9145	.9152	.9159	.9166
76	00	.9173	.9180	.9187	.9194	.9201	.9208	.9216	.9223	.9230	.9237
	10	.9244	.9251	.9258	.9265	.9272	.9279	.9286	.9293	.9300	.9306
	20	.9313	.9320	.9327	.9334	.9341	.9348	.9355	.9362	.9369	.9376
	30	.9382	.9389	.9396	.9403	.9410	.9417	.9423	.9430	.9437	.9444
	40	.9451	.9457	.9464	.9471	.9478	.9484	.9491	.9498	.9505	.9511
	50	.9518	.9525	.9531	.9538	.9545	.9551	.9558	.9565	.9571	.9578
77	00	.9585	.9591	.9598	.9604	.9611	.9618	.9624	.9631	.9637	.9644
	10	.9650	.9657	.9663	.9670	.9676	.9683	.9689	.9696	.9702	.9709
	20	.9716	.9722	.9728	.9735	.9741	.9748	.9754	.9760	.9767	.9773
	30	.9780	.9786	.9792	.9799	.9805	.9811	.9818	.9824	.9830	.9837
	40	.9843	.9849	.9856	.9862	.9868	.9875	.9881	.9887	.9893	.9900
	50	.9906	.9912	.9918	.9924	.9931	.9937	.9943	.9949	.9955	.9961
78	00	982.9968	.9974	.9980	.9986	.9992	.9998	.***4	.**10	.**17	.**23
	10	983.0029	.0035	.0041	.0047	.0053	.0059	.0065	.0071	.0077	.0083
	20	.0089	.0095	.0101	.0107	.0113	.0119	.0125	.0131	.0136	.0142
	30	.0148	.0154	.0160	.0166	.0172	.0178	.0184	.0189	.0195	.0201
	40	.0207	.0213	.0219	.0224	.0230	.0236	.0242	.0248	.0253	.0259
	50	.0265	.0271	.0276	.0282	.0288	.0293	.0299	.0305	.0310	.0316
79	00	.0322	.0327	.0333	.0339	.0344	.0350	.0356	.0361	.0367	.0372
	10	.0378	.0384	.0389	.0395	.0400	.0406	.0411	.0417	.0422	.0428
	20	.0433	.0439	.0444	.0450	.0455	.0461	.0466	.0472	.0477	.0482
	30	.0488	.0493	.0499	.0504	.0509	.0515	.0520	.0526	.0531	.0536
	40	.0542	.0547	.0552	.0558	.0563	.0568	.0573	.0579	.0584	.0589
	50	.0595	.0600	.0605	.0610	.0615	.0621	.0626	.0631	.0636	.0641
80	00	983.0647	.0652	.0657	.0662	.0667	.0672	.0677	.0683	.0688	.0693

Acceleration of gravity at sea level

by International formula

ø		0	1	2	3	4	5	6	7	8	9
°	'										
80	00	983.0647	.0652	.0657	.0662	.0667	.0672	.0677	.0683	.0688	.0693
	10	.0698	.0703	.0708	.0713	.0718	.0723	.0728	.0733	.0738	.0743
	20	.0748	.0753	.0758	.0763	.0768	.0773	.0778	.0783	.0788	.0793
	30	.0798	.0803	.0808	.0813	.0818	.0822	.0827	.0832	.0837	.0842
	40	.0847	.0852	.0856	.0861	.0866	.0871	.0876	.0880	.0885	.0890
	50	.0895	.0899	.0904	.0909	.0914	.0918	.0923	.0928	.0932	.0937
81	00	.0942	.0946	.0951	.0956	.0960	.0965	.0970	.0974	.0979	.0983
	10	.0988	.0993	.0997	.1002	.1006	.1011	.1015	.1020	.1024	.1029
	20	.1034	.1038	.1042	.1047	.1051	.1056	.1060	.1065	.1069	.1074
	30	.1078	.1082	.1087	.1091	.1096	.1100	.1104	.1109	.1113	.1117
	40	.1122	.1126	.1130	.1135	.1139	.1143	.1148	.1152	.1156	.1160
	50	.1165	.1169	.1173	.1177	.1182	.1186	.1190	.1194	.1198	.1203
82	00	.1207	.1211	.1215	.1219	.1223	.1228	.1232	.1236	.1240	.1244
	10	.1248	.1252	.1256	.1260	.1264	.1268	.1272	.1276	.1280	.1284
	20	.1288	.1292	.1296	.1300	.1304	.1308	.1312	.1316	.1320	.1324
	30	.1328	.1332	.1336	.1340	.1344	.1347	.1351	.1355	.1359	.1363
	40	.1367	.1370	.1374	.1378	.1382	.1386	.1389	.1393	.1397	.1401
	50	.1405	.1408	.1412	.1416	.1419	.1423	.1427	.1430	.1434	.1438
83	00	.1442	.1445	.1449	.1452	.1456	.1460	.1463	.1467	.1470	.1474
	10	.1478	.1481	.1485	.1488	.1492	.1495	.1499	.1502	.1506	.1509
	20	.1513	.1516	.1520	.1523	.1527	.1530	.1534	.1537	.1540	.1544
	30	.1547	.1551	.1554	.1557	.1561	.1564	.1567	.1571	.1574	.1577
	40	.1581	.1584	.1587	.1591	.1594	.1597	.1601	.1604	.1607	.1610
	50	.1614	.1617	.1620	.1623	.1626	.1630	.1633	.1636	.1639	.1642
84	00	.1645	.1649	.1652	.1655	.1658	.1661	.1664	.1667	.1670	.1673
	10	.1676	.1679	.1682	.1685	.1689	.1692	.1695	.1698	.1701	.1704
	20	.1707	.1709	.1712	.1715	.1718	.1721	.1724	.1727	.1730	.1733
	30	.1736	.1739	.1741	.1744	.1747	.1750	.1753	.1756	.1759	.1761
	40	.1764	.1767	.1770	.1773	.1775	.1778	.1781	.1784	.1786	.1789
	50	.1792	.1794	.1797	.1800	.1802	.1805	.1808	.1810	.1813	.1816
85	00	.1818	.1821	.1824	.1826	.1829	.1831	.1834	.1837	.1839	.1842
	10	.1844	.1847	.1849	.1852	.1854	.1857	.1859	.1862	.1864	.1867
	20	.1869	.1872	.1874	.1876	.1879	.1881	.1884	.1886	.1888	.1891
	30	.1893	.1896	.1898	.1900	.1903	.1905	.1907	.1910	.1912	.1914
	40	.1916	.1919	.1921	.1923	.1925	.1928	.1930	.1932	.1934	.1937
	50	.1939	.1941	.1943	.1945	.1947	.1950	.1952	.1954	.1956	.1958
86	00	.1960	.1962	.1964	.1966	.1969	.1971	.1973	.1975	.1977	.1979
	10	.1981	.1983	.1985	.1987	.1989	.1991	.1993	.1995	.1997	.1999
	20	.2001	.2002	.2004	.2006	.2008	.2010	.2012	.2014	.2016	.2018
	30	.2019	.2021	.2023	.2025	.2027	.2028	.2030	.2032	.2034	.2036
	40	.2037	.2039	.2041	.2043	.2044	.2046	.2048	.2049	.2051	.2053
	50	.2055	.2056	.2058	.2059	.2061	.2063	.2064	.2066	.2068	.2069
87	00	.2071	.2072	.2074	.2075	.2077	.2078	.2080	.2082	.2083	.2085
	10	.2086	.2088	.2089	.2090	.2092	.2093	.2095	.2096	.2098	.2099
	20	.2101	.2102	.2103	.2105	.2106	.2107	.2109	.2110	.2111	.2113
	30	.2114	.2115	.2117	.2118	.2119	.2121	.2122	.2123	.2124	.2126
	40	.2127	.2128	.2129	.2131	.2132	.2133	.2134	.2135	.2136	.2138
	50	.2139	.2140	.2141	.2142	.2143	.2144	.2145	.2147	.2148	.2149
88	00	.2150	.2151	.2152	.2153	.2154	.2155	.2156	.2157	.2158	.2159
	10	.2160	.2161	.2162	.2163	.2164	.2165	.2165	.2166	.2167	.2168
	20	.2169	.2170	.2171	.2172	.2172	.2173	.2174	.2175	.2176	.2177
	30	.2177	.2178	.2179	.2180	.2180	.2181	.2182	.2183	.2183	.2184
	40	.2185	.2186	.2186	.2187	.2188	.2188	.2189	.2190	.2190	.2191
	50	.2192	.2192	.2193	.2193	.2194	.2194	.2195	.2196	.2196	.2197
89	00	.2197	.2198	.2198	.2199	.2199	.2200	.2200	.2201	.2201	.2202
	10	.2202	.2202	.2203	.2203	.2204	.2204	.2204	.2205	.2205	.2206
	20	.2206	.2206	.2207	.2207	.2207	.2208	.2208	.2208	.2208	.2209
	30	.2209	.2209	.2210	.2210	.2210	.2210	.2210	.2211	.2211	.2211
	40	.2211	.2211	.2212	.2212	.2212	.2212	.2212	.2212	.2212	.2212
	50	.2213	.2213	.2213	.2213	.2213	.2213	.2213	.2213	.2213	.2213
90	00	.2213									

Photographie