# ArcGIS 10.1 projection engine tables: geographic and vertical coordinate systems, datums and vertical datums, spheroids, prime meridians, and angular units of measure

*Note: Some numerical values have been rounded for display. The extent values for an area of use are in decimal degrees based on WGS 1984.*

## Table 1: Geographic coordinate systems: well-known IDs and areas of use

| GCS Name | WKID | Area of Use | Minimum Latitude | Minimum Longitude | Maximum Latitude | Maximum Longitude |
|---|---|---|---|---|---|---|
| GCS_Abidjan_1987 | 4143 | Cote d'Ivoire (Ivory Coast) | 0.840 | -8.610 | 10.740 | -2.490 |
| GCS_Accra | 4168 | Ghana | 1.080 | -3.900 | 11.170 | 1.340 |
| GCS_Adindan | 4201 | Africa - Eritrea, Ethiopia, South Sudan and Sudan | 3.410 | 21.830 | 22.230 | 47.990 |
| GCS_Adrastea_2000 | 104909 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Afgooye | 4205 | Somalia | -2.390 | 41.010 | 13.400 | 54.980 |
| GCS_Agadez | 4206 | Niger | 11.700 | 0.170 | 23.540 | 16.010 |
| GCS_Ain_el_Abd_1970 | 4204 | Asia - Middle East - Bahrain, Kuwait and Saudi Arabia | 16.380 | 34.570 | 32.150 | 55.670 |
| GCS_Airy_1830 | 4001 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Airy_Modified | 4002 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Alaskan_Islands | 37260 | USA - Alaska | 51.300 | 172.430 | 71.400 | -129.990 |
| GCS_Albanian_1987 | 4191 | Albania - onshore | 39.640 | 19.220 | 42.660 | 21.050 |
| GCS_Amalthea_2000 | 104910 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_American_Samoa_1962 | 4169 | American Samoa - 2 main island groups | -14.430 | -170.870 | -14.120 | -169.390 |
| GCS_Amersfoort | 4289 | Netherlands - onshore | 50.750 | 3.210 | 53.710 | 7.210 |
| GCS_Ammassalik_1958 | 4196 | Greenland - Ammassalik area | 65.520 | -38.860 | 65.900 | -36.820 |
| GCS_Ananke_2000 | 104911 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Anguilla_1957 | 4600 | Anguilla - onshore | 18.120 | -63.220 | 18.320 | -62.920 |
| GCS_Anna_1_1965 | 4708 | Cocos (Keeling) Islands - onshore | -15.540 | 93.540 | -5.890 | 102.430 |
| GCS_Antigua_1943 | 4601 | Antigua - onshore | 16.940 | -61.940 | 17.210 | -61.620 |

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|---|---|---|---|---|---|---|
| GCS_Aratu | 4208 | Brazil - Aratu | -35.710 | -53.370 | 4.250 | -26.010 |
| GCS_Arc_1950 | 4209 | Africa - Botswana, Malawi, Zambia, Zimbabwe | -26.880 | 20.000 | -8.190 | 35.920 |
| GCS_Arc_1960 | 4210 | Africa - Kenya, Tanzania and Uganda | -11.740 | 29.340 | 4.620 | 41.910 |
| GCS_Ariel_2000 | 104945 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Ascension_Island_1958 | 4712 | St Helena - Ascension Island | -7.990 | -14.420 | -7.880 | -14.290 |
| GCS_Astro_1952 | 4711 | Japan - Minamitori-shima (Marcus Island) | 24.260 | 153.950 | 24.320 | 154.010 |
| GCS_ATF_Paris | 4901 | France - mainland onshore | 42.330 | -4.870 | 51.140 | 8.230 |
| GCS_Atlas_2000 | 104926 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ATS_1977 | 4122 | Canada - Maritime Provinces | 43.420 | -69.050 | 48.070 | -59.740 |
| GCS_Australian | 4003 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Australian_1966 | 4202 | Australasia - Australia and PNG - AGD66 | -45.000 | 108.000 | -1.330 | 156.000 |
| GCS_Australian_1984 | 4203 | Australia - AGD84 | -39.000 | 108.000 | -10.000 | 155.000 |
| GCS_Australian_Antarctic_1998 | 4176 | Antarctica - Australian sector | -90.000 | 45.000 | -60.000 | 160.000 |
| GCS_Ayabelle | 4713 | Djibouti | 10.940 | 41.780 | 12.830 | 44.050 |
| GCS_Azores_Central_1948 | 4183 | Portugal - Azores C - onshore | 38.320 | -28.900 | 39.140 | -26.970 |
| GCS_Azores_Central_1995 | 4665 | Portugal - Azores C - onshore | 38.320 | -28.900 | 39.140 | -26.970 |
| GCS_Azores_Occidental_1939 | 4182 | Portugal - Azores W - onshore | 39.300 | -31.340 | 39.760 | -31.020 |
| GCS_Azores_Oriental_1940 | 4184 | Portugal - Azores E - onshore | 36.880 | -25.910 | 37.960 | -24.960 |
| GCS_Azores_Oriental_1995 | 4664 | Portugal - Azores E - onshore | 36.880 | -25.910 | 37.960 | -24.960 |
| GCS_Bab_South | 104112 | Palau | 0.000 | 130.660 | 10.910 | 146.420 |
| GCS_Barbados_1938 | 4212 | Barbados - onshore | 13.000 | -59.710 | 13.390 | -59.380 |
| GCS_Batavia | 4211 | Indonesia - Java and Java Sea | -8.780 | 105.110 | -4.000 | 115.570 |
| GCS_Batavia_Jakarta | 4813 | Indonesia - Java | -8.780 | 105.110 | -5.730 | 115.570 |
| GCS_Beacon_E_1945 | 4709 | Japan - Iwo Jima | 24.740 | 141.280 | 24.820 | 141.360 |
| GCS_Beduaram | 4213 | Niger - southeast | 12.600 | 8.000 | 16.500 | 15.500 |
| GCS_Beijing_1954 | 4214 | China - onshore | 18.040 | 73.660 | 53.590 | 134.850 |
| GCS_Belge_1950 | 4215 | Belgium - onshore | 49.510 | 2.510 | 51.500 | 6.400 |
| GCS_Belge_1950_Brussels | 4809 | Belgium - onshore | 49.510 | 2.510 | 51.500 | 6.400 |
| GCS_Belge_1972 | 4313 | Belgium - onshore | 49.510 | 2.510 | 51.500 | 6.400 |
| GCS_Belinda_2000 | 104946 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Bellevue_IGN | 4714 | Vanuatu - southern islands | -19.700 | 168.100 | -17.400 | 169.640 |
| GCS_Bermuda_1957 | 4216 | Bermuda - onshore | 32.210 | -64.880 | 32.430 | -64.620 |
| GCS_Bermuda_2000 | 4762 | Bermuda | 28.910 | -68.830 | 35.720 | -60.710 |
| GCS_Bern_1898_Bern | 4801 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| GCS_Bern_1938 | 4306 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| GCS_Bessel_1841 | 4004 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Bessel_Modified | 4005 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Bessel_Namibia | 4006 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Bianca_2000 | 104947 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Bissau | 4165 | Guinea-Bissau - | 10.890 | -16.730 | 12.690 | -13.650 |

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|---|---|---|---|---|---|---|
| | | onshore | | | | |
| GCS_Bogota | 4218 | Colombia - mainland and offshore Caribbean | -4.240 | -79.100 | 13.670 | -66.870 |
| GCS_Bogota_Bogota | 4802 | Colombia - mainland | -4.240 | -79.100 | 12.510 | -66.870 |
| GCS_Bukit_Rimpah | 4219 | Indonesia - Banga & Belitung Islands | -3.250 | 105.120 | -1.490 | 108.290 |
| GCS_Cadastre_1997 | 4475 | Mayotte - onshore | -13.000 | 44.970 | -12.600 | 45.320 |
| GCS_Callisto_2000 | 104912 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Calypso_2000 | 104927 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Camacupa | 4220 | Angola - Angola proper | -18.050 | 12.110 | -5.750 | 24.100 |
| GCS_Camp_Area | 4715 | Antarctica - Camp McMurdo area | -78.000 | 165.500 | -77.000 | 167.000 |
| GCS_Campo_Inchauspe | 4221 | Argentina | -58.400 | -73.580 | -21.780 | -52.630 |
| GCS_Canton_1966 | 4716 | Kiribati - Phoenix Islands | -4.640 | -174.200 | -2.720 | -171.300 |
| GCS_Cape | 4222 | Africa - Botswana, Lesotho, South Africa and Swaziland | -46.970 | 16.480 | -17.780 | 37.890 |
| GCS_Cape_Canaveral | 4717 | North America - Bahamas and USA - Florida - onshore | 20.870 | -82.330 | 30.830 | -72.690 |
| GCS_Carme_2000 | 104913 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Carthage | 4223 | Tunisia | 30.250 | 7.500 | 38.430 | 13.740 |
| GCS_Carthage_Grad | 37225 | Tunisia | 30.250 | 7.500 | 38.430 | 13.740 |
| GCS_Carthage_Paris | 4816 | Tunisia - onshore | 30.250 | 7.500 | 37.350 | 11.630 |
| GCS_CGRS_1993 | 104141 | Cyprus - onshore | 34.590 | 32.210 | 35.740 | 34.650 |
| GCS_CH1903 | 4149 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| GCS_CH1903+ | 4150 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| GCS_Charon_2000 | 104970 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Chatham_Island_1971 | 4672 | New Zealand - Chatham Islands group | -45.000 | -178.000 | -43.000 | -175.000 |
| GCS_Chatham_Islands_1979 | 4673 | New Zealand - Chatham Islands group | -45.000 | -178.000 | -43.000 | -175.000 |
| GCS_China_Geodetic_Coordinate_System_2000 | 4490 | China | 7.160 | 73.660 | 53.590 | 134.850 |
| GCS_Chos_Malal_1914 | 4160 | Argentina - Neuquen province | -41.090 | -71.950 | -36.150 | -68.010 |
| GCS_Chua | 4224 | South America - Brazil - south of 18~S and west of 54~W + DF; N Paraguay | -31.910 | -62.560 | -15.380 | -47.100 |
| GCS_Clarke_1858 | 4007 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1866 | 4008 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1866_Michigan | 4009 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880 | 4034 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880_Arc | 4013 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880_Benoit | 4010 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880_IGN | 4011 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880_RGS | 4012 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Clarke_1880_SGA | 4014 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Combani_1950 | 4632 | Mayotte - onshore | -13.000 | 44.970 | -12.600 | 45.320 |
| GCS_Conakry_1905 | 4315 | Guinea - onshore | 7.160 | -15.120 | 12.690 | -7.650 |

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|---|---|---|---|---|---|---|
| GCS_Cordelia_2000 | 104948 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Corrego_Alegre | 4225 | Brazil - Corrego Alegre 1970-1972 | -33.780 | -58.160 | -2.680 | -34.740 |
| GCS_Corrego_Alegre_1961 | 5524 | Brazil - Corrego Alegre 1961 | -27.500 | -58.160 | -15.000 | -38.820 |
| GCS_Cote_d_Ivoire | 4226 | Cote d'Ivoire (Ivory Coast) | 0.840 | -8.610 | 10.740 | -2.490 |
| GCS_CR05 | 5365 | Costa Rica | 2.150 | -90.440 | 11.770 | -81.430 |
| GCS_Cressida_2000 | 104949 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_CSG_1967 | 4623 | French Guiana - coastal area | 3.430 | -54.450 | 5.810 | -51.620 |
| GCS_D48 | 104131 | Slovenia | 45.430 | 13.380 | 46.880 | 16.610 |
| GCS_Dabola_1981 | 4155 | Guinea - onshore | 7.160 | -15.120 | 12.690 | -7.650 |
| GCS_Datum_73 | 4274 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| GCS_Datum_Lisboa_Bessel | 104105 | Portugal | 29.250 | -35.580 | 43.070 | -6.190 |
| GCS_Datum_Lisboa_Hayford | 104106 | Portugal | 29.250 | -35.580 | 43.070 | -6.190 |
| GCS_Dealul_Piscului_1933 | 4316 | Romania - onshore | 43.620 | 20.260 | 48.260 | 29.730 |
| GCS_Dealul_Piscului_1970 | 4317 | Romania | 43.450 | 20.260 | 48.260 | 31.410 |
| GCS_Deception_Island | 4736 | Antarctica - Antarctic Peninsula and Deception Island | -64.100 | -61.000 | -62.860 | -60.180 |
| GCS_Deimos_2000 | 104906 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Deir_ez_Zor | 4227 | Asia - Middle East - Lebanon and Syria onshore | 32.310 | 35.100 | 37.290 | 42.380 |
| GCS_Desdemona_2000 | 104950 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Despina_2000 | 104961 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Deutsches_Hauptdreiecksnetz | 4314 | Germany - West Germany all states | 47.270 | 5.870 | 55.090 | 13.830 |
| GCS_DGN_1995 | 4755 | Indonesia | -13.010 | 91.660 | 7.920 | 141.100 |
| GCS_Dione_2000 | 104928 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Dominica_1945 | 4602 | Dominica - onshore | 15.150 | -61.540 | 15.680 | -61.200 |
| GCS_DOS_1968 | 37218 | Solomon Islands - New Georgia - Ghizo (Gizo) | -8.150 | 156.700 | -8.000 | 156.900 |
| GCS_DOS_71_4 | 4710 | St Helena - St Helena Island | -16.030 | -5.810 | -15.880 | -5.630 |
| GCS_Douala | 4228 | Cameroon | 1.660 | 8.380 | 13.090 | 16.220 |
| GCS_Douala_1948 | 4192 | Cameroon - coastal area | 1.500 | 8.400 | 5.000 | 12.000 |
| GCS_DRUKREF_03 | 5264 | Bhutan | 26.700 | 88.740 | 28.250 | 92.130 |
| GCS_Easter_Island_1967 | 4719 | Chile - Easter Island onshore | -27.250 | -109.500 | -27.020 | -109.160 |
| GCS_Egypt_1907 | 4229 | Egypt | 21.990 | 24.710 | 33.750 | 36.900 |
| GCS_Egypt_1930 | 4199 | Egypt - onshore | 21.990 | 24.710 | 31.650 | 36.900 |
| GCS_Egypt_Gulf_of_Suez_S-650_TL | 4706 | Egypt - Gulf of Suez | 27.300 | 32.300 | 29.960 | 34.250 |
| GCS_Elara_2000 | 104914 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Enceladus_2000 | 104929 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Epimetheus_2000 | 104930 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Estonia_1937 | 104101 | Estonia | 57.520 | 20.370 | 59.990 | 28.190 |
| GCS_Estonia_1992 | 4133 | Estonia | 57.520 | 20.370 | 59.990 | 28.190 |
| GCS_Estonia_1997 | 4180 | Estonia | 57.520 | 20.370 | 59.990 | 28.190 |
| GCS_ETRF_1989 | 104258 | Europe - ETRS89 | 32.880 | -16.100 | 84.160 | 39.640 |
| GCS_ETRS_1989 | 4258 | Europe - ETRS89 | 32.880 | -16.100 | 84.160 | 39.640 |
| GCS_EUREF_FIN | 104129 | Finland | 58.840 | 19.080 | 70.090 | 31.580 |
| GCS_Europa_2000 | 104915 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_European_1950 | 4230 | Europe - ED50 by | 25.710 | -16.100 | 84.160 | 48.610 |

| | | country | | | | |
|---|---|---|---|---|---|---|
| GCS_European_1950_ED77 | 4154 | Iran | 23.350 | 44.060 | 39.800 | 63.370 |
| GCS_European_1979 | 4668 | Europe - west | 34.880 | -10.560 | 71.200 | 31.580 |
| GCS_European_1987 | 4231 | Europe - west | 34.880 | -10.560 | 71.200 | 31.580 |
| GCS_European_Libyan_Datum_1979 | 4159 | Libya | 19.510 | 9.310 | 36.000 | 25.980 |
| GCS_Everest_1830 | 4042 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_Adj_1937 | 4015 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_Bangladesh | 37202 | Bangladesh | 15.090 | 88.100 | 26.650 | 92.720 |
| GCS_Everest_def_1962 | 4044 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_def_1967 | 4016 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_def_1975 | 4045 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_India_Nepal | 37203 | India | 3.120 | 66.160 | 35.550 | 97.450 |
| GCS_Everest_Modified | 4018 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Everest_Modified_1969 | 37006 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Fahud | 4232 | Oman - onshore | 16.600 | 51.900 | 26.400 | 59.890 |
| GCS_Fatu_Iva_1972 | 4688 | French Polynesia - Marquises Islands - Fatu Iva | -10.550 | -138.700 | -10.330 | -138.550 |
| GCS_FD_1954 | 4741 | Faroe Islands - onshore | 61.340 | -7.480 | 62.410 | -6.340 |
| GCS_FD_1958 | 4132 | Iran - FD58 | 27.250 | 47.000 | 33.000 | 52.700 |
| GCS_Fiji_1956 | 4721 | Fiji - main islands | -18.500 | 177.000 | -16.000 | -179.500 |
| GCS_Fiji_1986 | 4720 | Fiji | -25.100 | 172.870 | -9.790 | -176.160 |
| GCS_Fischer_1960 | 37002 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Fischer_1968 | 37003 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Fischer_Modified | 37004 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_fk89 | 4753 | Faroe Islands - onshore | 61.340 | -7.480 | 62.410 | -6.340 |
| GCS_Fort_Desaix | 4625 | Martinique - onshore | 14.350 | -61.280 | 14.930 | -60.770 |
| GCS_Fort_Marigot | 4621 | Guadeloupe - St Martin and St Barthelemy - onshore | 17.830 | -63.200 | 18.170 | -62.730 |
| GCS_Fort_Thomas_1955 | 37240 | St Kitts and Nevis | 16.350 | -63.630 | 17.670 | -62.200 |
| GCS_Galatea_2000 | 104962 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Gan_1970 | 4684 | Maldives - onshore | 3.900 | 73.330 | 4.500 | 73.700 |
| GCS_Ganymede_2000 | 104916 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Garoua | 4234 | Cameroon | 1.660 | 8.380 | 13.090 | 16.220 |
| GCS_GDA_1994 | 4283 | Australia | -60.040 | 110.770 | -8.860 | 174.100 |
| GCS_GDBD2009 | 5246 | Brunei | 4.000 | 112.500 | 6.370 | 115.360 |
| GCS_GDM_2000 | 4742 | Malaysia | 0.850 | 98.120 | 10.070 | 119.680 |
| GCS_GEM_10C | 4031 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_GGRS_1987 | 4121 | Greece - onshore | 34.880 | 19.580 | 41.750 | 28.300 |
| GCS_Graciosa_Base_SW_1948 | 37241 | Portugal - Azores C - onshore | 38.320 | -28.900 | 39.140 | -26.970 |
| GCS_Grand_Cayman_1959 | 4723 | Cayman Islands - Grand Cayman | 19.220 | -81.450 | 19.400 | -81.040 |
| GCS_Grand_Comoros | 4646 | Comoros - Njazidja (Grande Comore) | -11.900 | 43.200 | -11.400 | 43.500 |
| GCS_Greek | 4120 | Greece - onshore | 34.880 | 19.580 | 41.750 | 28.300 |
| GCS_Greek_Athens | 4815 | Greece - onshore | 34.880 | 19.580 | 41.750 | 28.300 |
| GCS_Greenland_1996 | 4747 | Greenland | 56.380 | -75.000 | 87.020 | 8.120 |
| GCS_Grenada_1953 | 4603 | Grenada and southern Grenadines - onshore | 11.950 | -61.830 | 12.560 | -61.350 |
| GCS_GRS_1967 | 4036 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_GRS_1980 | 4019 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Guam_1963 | 4675 | Guam - onshore | 13.190 | 144.580 | 13.700 | 145.000 |
| GCS_Gulshan_303 | 4682 | Bangladesh | 15.090 | 88.100 | 26.650 | 92.720 |
| GCS_Gunung_Segara | 4613 | Indonesia - | -5.720 | 113.690 | 4.400 | 119.620 |

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|---|---|---|---|---|---|---|
| | | Kalimantan E | | | | |
| GCS_Gunung_Segara_Jakarta | 4820 | Indonesia - Kalimantan E | -5.720 | 113.690 | 4.400 | 119.620 |
| GCS_GUX_1 | 37221 | Solomon Islands - Guadalcanal Island | -9.960 | 159.560 | -9.240 | 160.910 |
| GCS_Guyane_Francaise | 4235 | French Guiana | 2.110 | -54.600 | 8.880 | -49.460 |
| GCS_Hanoi_1972 | 4147 | Vietnam - onshore | 8.450 | 103.800 | 23.390 | 109.600 |
| GCS_Hartebeesthoek_1994 | 4148 | South Africa | -50.340 | 14.030 | -22.140 | 41.160 |
| GCS_HD1909 | 3819 | Hungary | 45.750 | 16.110 | 48.580 | 22.890 |
| GCS_Helene_2000 | 104931 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Helle_1954 | 4660 | Jan Mayen - onshore | 70.750 | -9.170 | 71.230 | -7.880 |
| GCS_Helmert_1906 | 4020 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Herat_North | 4255 | Afghanistan | 29.410 | 60.540 | 38.500 | 74.960 |
| GCS_Hermannskogel | 104102 | Europe - Austria and FR Yugoslavia | 40.860 | 9.530 | 51.050 | 23.030 |
| GCS_Himalia_2000 | 104917 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Hito_XVIII_1963 | 4254 | South America - Tierra del Fuego | -55.950 | -74.820 | -52.400 | -65.060 |
| GCS_Hjorsey_1955 | 4658 | Iceland - onshore | 63.350 | -24.660 | 66.580 | -13.380 |
| GCS_Hong_Kong_1963 | 4738 | China - Hong Kong | 22.160 | 113.890 | 22.620 | 114.570 |
| GCS_Hong_Kong_1963_67 | 4739 | China - Hong Kong | 22.160 | 113.890 | 22.620 | 114.570 |
| GCS_Hong_Kong_1980 | 4611 | China - Hong Kong | 22.160 | 113.890 | 22.620 | 114.570 |
| GCS_Hough_1960 | 37005 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_HTRS96 | 4761 | Croatia | 41.620 | 13.010 | 46.540 | 19.430 |
| GCS_Hughes_1980 | 4054 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Hungarian_1972 | 4237 | Hungary | 45.750 | 16.110 | 48.580 | 22.890 |
| GCS_Hu_Tzu_Shan | 4236 | Taiwan - onshore | 21.800 | 119.400 | 25.400 | 122.050 |
| GCS_Hyperion_2000 | 104932 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Iapetus_2000 | 104933 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_IGC_1962_6th_Parallel_South | 4697 | Congo DR (Zaire) - 6th parallel south | -7.250 | 12.210 | -5.000 | 30.600 |
| GCS_IGCB_1955 | 4701 | Congo DR (Zaire) - Bas Congo | -6.100 | 12.210 | -3.950 | 16.500 |
| GCS_IGM_1995 | 4670 | Italy - including San Marino and Vatican | 34.770 | 5.940 | 47.090 | 18.990 |
| GCS_IGN53_Mare | 4641 | New Caledonia - Mare | -21.700 | 167.750 | -21.300 | 168.150 |
| GCS_IGN56_Lifou | 4633 | New Caledonia - Lifou | -21.200 | 167.000 | -20.700 | 167.500 |
| GCS_IGN63_Hiva_Oa | 4689 | French Polynesia - Marquises Islands - Hiva Oa and Tahuata | -10.050 | -139.180 | -9.670 | -138.800 |
| GCS_IGN72_Grande_Terre | 4662 | New Caledonia - Grande Terre | -22.500 | 163.900 | -20.000 | 167.100 |
| GCS_IGN72_Nuku_Hiva | 4630 | French Polynesia - Marquises Islands - Nuku Hiva, Ua Huka and Ua Pou | -9.500 | -140.250 | -8.750 | -139.450 |
| GCS_IGN_Astro_1960 | 4700 | Mauritania | 14.730 | -20.410 | 27.310 | -4.810 |
| GCS_IGRS | 3889 | Iraq | 29.060 | 38.820 | 37.410 | 49.400 |
| GCS_IKBD_1992 | 4667 | Asia - Middle East - Iraq-Kuwait boundary | 29.050 | 46.500 | 30.100 | 48.000 |
| GCS_Indian_1954 | 4239 | Asia - Myanmar and Thailand onshore | 5.630 | 92.200 | 28.550 | 105.640 |
| GCS_Indian_1960 | 4131 | Asia - Cambodia and Vietnam - onshore | 8.560 | 102.140 | 23.320 | 109.460 |
| GCS_Indian_1975 | 4240 | Thailand - onshore and offshore Gulf of Thailand | 5.630 | 98.000 | 20.470 | 105.700 |
| GCS_Indonesian | 4021 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |

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|---|---|---|---|---|---|---|
| GCS_Indonesian_1974 | 4238 | Indonesia | -13.010 | 91.660 | 7.920 | 141.100 |
| GCS_International_1924 | 4022 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Io_2000 | 104918 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_IRENET95 | 4173 | Europe - Ireland (Republic and Ulster) - on- and offshore | 51.330 | -10.600 | 55.400 | -5.330 |
| GCS_ISN_1993 | 4659 | Iceland | 59.960 | -30.860 | 69.580 | -5.560 |
| GCS_ISN_2004 | 5324 | Iceland | 59.960 | -30.860 | 69.580 | -5.560 |
| GCS_Israel | 4141 | Asia - Middle East - Israel and Palestine Territory onshore | 29.490 | 34.220 | 33.270 | 35.680 |
| GCS_ISTS_061_1968 | 4722 | South Georgia | -55.220 | -38.460 | -53.800 | -34.630 |
| GCS_ISTS_073_1969 | 4724 | British Indian Ocean Territory - Diego Garcia | -7.490 | 72.340 | -7.210 | 72.500 |
| GCS_ITRF_1988 | 104115 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1989 | 104116 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1990 | 104117 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1991 | 104118 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1992 | 104119 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1993 | 104120 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1994 | 104121 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1996 | 104122 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_1997 | 104123 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_2000 | 104124 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_2005 | 104896 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_ITRF_2008 | 104257 | World (by country) | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_JAD_2001 | 4758 | Jamaica | 14.080 | -80.590 | 19.360 | -74.510 |
| GCS_Jamaica_1875 | 4241 | Jamaica - onshore | 17.650 | -78.430 | 18.570 | -76.170 |
| GCS_Jamaica_1969 | 4242 | Jamaica - onshore | 17.650 | -78.430 | 18.570 | -76.170 |
| GCS_Janus_2000 | 104934 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_JGD_2000 | 4612 | Japan | 19.010 | 122.490 | 45.920 | 160.090 |
| GCS_JGD_2000_ touhokutaiheiyouoki2011 | 104020 | Japan | 19.010 | 122.490 | 45.920 | 160.090 |
| GCS_Johnston_Island_1961 | 4725 | Johnston Island | 16.000 | -169.630 | 16.810 | -169.300 |
| GCS_Jordan | 104130 | Jordan | 29.210 | 34.980 | 33.400 | 39.330 |
| GCS_Jouik_1961 | 4679 | Mauritania - north coast | 19.360 | -17.500 | 21.250 | -16.000 |
| GCS_Juliet_2000 | 104951 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Jupiter_2000 | 104908 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Kalianpur_1880 | 4243 | Asia - Bangladesh; India; Myanmar; Pakistan | 6.750 | 60.870 | 37.060 | 101.170 |
| GCS_Kalianpur_1937 | 4144 | Asia - Bangladesh; India; Pakistan | 6.750 | 60.870 | 37.060 | 97.380 |
| GCS_Kalianpur_1962 | 4145 | Pakistan - onshore | 23.600 | 60.910 | 37.080 | 77.870 |
| GCS_Kalianpur_1975 | 4146 | India - onshore | 7.950 | 68.200 | 35.550 | 97.450 |
| GCS_Kandawala | 4244 | Sri Lanka - onshore | 5.850 | 79.600 | 9.920 | 81.950 |
| GCS_Karbala_1979_Polservice | 4743 | Iraq - onshore | 29.060 | 38.820 | 37.410 | 49.400 |
| GCS_Kasai_1953 | 4696 | Congo DR (Zaire) - Kasai - SE | -7.250 | 21.500 | -5.000 | 24.000 |
| GCS_Katanga_1955 | 4695 | Congo DR (Zaire) - Katanga | -13.460 | 21.700 | -5.000 | 30.780 |
| GCS_Kerguelen_Island_1949 | 4698 | French Southern Territories - Kerguelen onshore | -49.750 | 68.500 | -48.500 | 70.600 |
| GCS_Kertau | 4245 | Asia - Malaysia (west) and Singapore | 1.260 | 99.640 | 6.710 | 104.290 |

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|---|---|---|---|---|---|---|
| GCS_Kertau_RSO | 4751 | Asia - Malaysia (west) and Singapore | 1.260 | 99.640 | 6.710 | 104.290 |
| GCS_KKJ | 4123 | Finland - onshore | 59.760 | 19.410 | 70.090 | 31.580 |
| GCS_Korea_2000 | 4737 | Korea, Republic of (South Korea) | 31.600 | 122.520 | 39.160 | 132.100 |
| GCS_Korean_Datum_1985 | 4162 | Korea, Republic of (South Korea) - onshore | 33.180 | 125.800 | 38.670 | 129.720 |
| GCS_Korean_Datum_1995 | 4166 | Korea, Republic of (South Korea) - onshore | 33.180 | 125.800 | 38.670 | 129.720 |
| GCS_Kousseri | 4198 | Cameroon - N'Djamena area | 12.000 | 15.000 | 12.200 | 15.300 |
| GCS_Krasovsky_1940 | 4024 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_KUDAMS | 4319 | Kuwait - Kuwait City | 29.250 | 47.670 | 29.450 | 48.150 |
| GCS_Kusaie_1951 | 4735 | Micronesia - Caroline Islands | 4.000 | 136.660 | 12.760 | 168.430 |
| GCS_Kuwait_Oil_Company | 4246 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| GCS_La_Canoa | 4247 | Venezuela - onshore | 0.650 | -73.380 | 12.250 | -59.800 |
| GCS_Lake | 4249 | Venezuela - Lake Maracaibo | 8.720 | -72.390 | 11.030 | -70.790 |
| GCS_Lao_1993 | 4677 | Laos | 13.920 | 100.150 | 22.510 | 107.760 |
| GCS_Lao_1997 | 4678 | Laos | 13.920 | 100.150 | 22.510 | 107.760 |
| GCS_Larissa_2000 | 104963 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_LC5_1961 | 37243 | Cayman Islands - Cayman Brac | 19.660 | -79.910 | 19.780 | -79.690 |
| GCS_Leda_2000 | 104919 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Leigon | 4250 | Ghana | 1.080 | -3.900 | 11.170 | 1.340 |
| GCS_Le_Pouce_1934 | 4699 | Mauritius - mainland | -20.500 | 57.300 | -19.950 | 57.800 |
| GCS_LGD2006 | 4754 | Libya | 19.510 | 9.310 | 36.000 | 25.980 |
| GCS_Liberia_1964 | 4251 | Liberia - onshore | 4.270 | -11.500 | 8.570 | -7.370 |
| GCS_Lisbon | 4207 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| GCS_Lisbon_1890 | 4666 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| GCS_Lisbon_1890_Lisbon | 4904 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| GCS_Lisbon_Lisbon | 4803 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| GCS_Little_Cayman_1961 | 4726 | Cayman Islands - Little Cayman and Cayman Brac | 19.640 | -80.130 | 19.780 | -79.690 |
| GCS_LKS_1992 | 4661 | Latvia | 55.670 | 19.070 | 58.080 | 28.240 |
| GCS_LKS_1994 | 4669 | Lithuania | 53.890 | 19.020 | 56.450 | 26.810 |
| GCS_Locodjo_1965 | 4142 | Cote d'Ivoire (Ivory Coast) | 0.840 | -8.610 | 10.740 | -2.490 |
| GCS_Loma_Quintana | 4288 | Venezuela - north of 7~45'N | 7.750 | -73.380 | 12.250 | -59.800 |
| GCS_Lome | 4252 | Togo | 2.450 | -0.150 | 11.150 | 1.940 |
| GCS_Luxembourg_1930 | 4181 | Luxembourg | 49.450 | 5.730 | 50.180 | 6.520 |
| GCS_Luzon_1911 | 4253 | Philippines | 2.250 | 116.090 | 21.430 | 140.080 |
| GCS_Lysithea_2000 | 104920 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Madeira_1936 | 4185 | Portugal - Madeira archipelago onshore | 32.360 | -17.300 | 33.140 | -16.230 |
| GCS_Madrid_1870_Madrid | 4903 | Spain - mainland onshore | 35.960 | -9.360 | 43.810 | 3.390 |
| GCS_Madzansua | 4128 | Mozambique - west - Tete province | -17.500 | 30.230 | -14.000 | 34.500 |

| GCS_MAGNA | 4686 | Colombia | -4.240 | -84.770 | 15.500 | -66.870 |
|---|---|---|---|---|---|---|
| GCS_Mahe_1971 | 4256 | Seychelles | -10.610 | 45.770 | -3.010 | 56.980 |
| GCS_Majuro | 104113 | Marshall Islands | 3.090 | 157.090 | 21.010 | 178.610 |
| GCS_Makassar | 4257 | Indonesia - Sulawesi SW | -7.900 | 117.600 | 2.000 | 121.000 |
| GCS_Makassar_Jakarta | 4804 | Indonesia - Sulawesi SW | -7.900 | 117.600 | 2.000 | 121.000 |
| GCS_Malongo_1987 | 4259 | Africa - Angola (Cabinda) and DR Congo (Zaire) - offshore | -6.000 | 10.850 | -5.030 | 12.430 |
| GCS_Manoca | 4260 | Cameroon | 1.660 | 8.380 | 13.090 | 16.220 |
| GCS_Manoca_1962 | 4193 | Cameroon - coastal area | 1.500 | 8.400 | 5.000 | 12.000 |
| GCS_MARCARIO_SOLIS | 5371 | Panama | 5.000 | -84.320 | 12.500 | -77.050 |
| GCS_MARGEN | 5354 | Bolivia | -22.900 | -69.660 | -9.680 | -57.520 |
| GCS_Mars_1979 | 104904 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Mars_2000 | 104905 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Massawa | 4262 | Eritrea | 12.330 | 36.400 | 18.570 | 43.300 |
| GCS_Maupiti_1983 | 4692 | French Polynesia - Society Islands - Maupiti | -16.520 | -152.330 | -16.330 | -152.160 |
| GCS_Mauritania_1999 | 4702 | Mauritania | 14.730 | -20.410 | 27.310 | -4.810 |
| GCS_Merchich | 4261 | Morocco - onshore | 27.680 | -13.770 | 36.230 | -1.010 |
| GCS_Merchich_Degree | 104261 | Morocco - onshore | 27.680 | -13.770 | 36.230 | -1.010 |
| GCS_Mercury_2000 | 104900 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Metis_2000 | 104921 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Mexican_Datum_of_1993 | 4483 | Mexico | 12.100 | -122.180 | 32.720 | -84.640 |
| GCS_MGI | 4312 | Austria | 46.410 | 9.530 | 49.020 | 17.170 |
| GCS_MGI_1901 | 3906 | Europe - former Yugoslavia onshore | 40.860 | 13.380 | 46.880 | 23.030 |
| GCS_MGI_Ferro | 4805 | Europe - Austria and former Yugoslavia onshore | 40.860 | 9.530 | 49.020 | 23.030 |
| GCS_Mhast_1951 | 4703 | Angola - Cabinda | -5.770 | 12.110 | -4.390 | 13.090 |
| GCS_Mhast_Offshore | 4705 | Africa - Angola (Cabinda) and DR Congo (Zaire) - offshore | -6.000 | 10.850 | -5.030 | 12.430 |
| GCS_Mhast_Onshore | 4704 | Africa - Angola (Cabinda) and DR Congo (Zaire) - coastal | -6.000 | 10.850 | -4.370 | 13.110 |
| GCS_Midway_1961 | 4727 | Midway Islands - Sand and Eastern Islands | 28.180 | -177.420 | 28.290 | -177.300 |
| GCS_Mimas_2000 | 104935 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Minna | 4263 | Nigeria | 0.930 | 2.700 | 13.900 | 14.680 |
| GCS_Miranda_2000 | 104952 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_MOLDREF99 | 4023 | Moldova | 45.450 | 26.630 | 48.470 | 30.130 |
| GCS_MONREF_1997 | 104134 | Mongolia | 41.560 | 87.760 | 52.170 | 119.980 |
| GCS_Monte_Mario | 4265 | Italy - including San Marino and Vatican | 34.770 | 5.940 | 47.090 | 18.990 |
| GCS_Monte_Mario_Rome | 4806 | Italy - including San Marino and Vatican | 34.770 | 5.940 | 47.090 | 18.990 |
| GCS_Montserrat_1958 | 4604 | Montserrat - onshore | 16.620 | -62.290 | 16.860 | -62.090 |
| GCS_Moon_2000 | 104903 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Moorea_1987 | 4691 | French Polynesia - Society Islands - | -17.610 | -149.960 | -17.450 | -149.690 |

| | | Moorea | | | | |
|---|---|---|---|---|---|---|
| GCS_MOP78 | 4639 | Wallis and Futuna - Wallis | -14.000 | -177.000 | -13.000 | -176.000 |
| GCS_Mount_Dillon | 4157 | Trinidad and Tobago - Tobago - onshore | 11.090 | -60.890 | 11.400 | -60.470 |
| GCS_Moznet | 4130 | Mozambique | -26.880 | 30.230 | -9.560 | 43.000 |
| GCS_Mporaloko | 4266 | Gabon | -6.390 | 5.910 | 2.330 | 14.550 |
| GCS_MSK_1942 | 104135 | Mongolia | 41.560 | 87.760 | 52.170 | 119.980 |
| GCS_NAD_1927_CGQ77 | 4609 | Canada - Quebec | 44.990 | -79.850 | 62.610 | -57.110 |
| GCS_NAD_1927_Definition_1976 | 4608 | Canada - Ontario | 41.680 | -95.160 | 56.890 | -74.360 |
| GCS_NAD_1983_2011 | 104145 | USA - CONUS and Alaska; PRVI | 14.930 | 167.650 | 74.710 | -63.890 |
| GCS_NAD_1983_CORS96 | 104223 | USA - CONUS and Alaska; PRVI | 14.930 | 167.650 | 74.710 | -63.890 |
| GCS_NAD_1983_HARN_Adj_MN_ Anoka | 104700 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Becker | 104701 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Beltrami_North | 104702 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Beltrami_South | 104703 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Benton | 104704 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Big_ Stone | 104705 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Blue_ Earth | 104706 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Brown | 104707 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Carlton | 104708 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Carver | 104709 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Cass_ North | 104710 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Cass_ South | 104711 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Chippewa | 104712 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Chisa go | 104713 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Cook _North | 104714 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Cook _South | 104715 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Cottonwood | 104716 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Crow _Wing | 104717 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Dako ta | 104718 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Dodge | 104719 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Douglas | 104720 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Faribault | 104721 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |

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| GCS_NAD_1983_HARN_Adj_MN_ Fillmore | 104722 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Freeborn | 104723 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Good hue | 104724 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Grant | 104725 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Hennepin | 104726 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Houston | 104727 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Isanti | 104728 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Itasca _North | 104729 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Itasca _South | 104730 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Jackson | 104731 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Kana bec | 104732 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Kandiyohi | 104733 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Kittson | 104734 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Koochiching | 104735 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Lac_ Qui_Parle | 104736 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Lake _of_the_Woods_North | 104737 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Lake _of_the_Woods_South | 104738 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Le_ Sueur | 104739 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Lincoln | 104740 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Lyon | 104741 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Mahnomen | 104743 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Marshall | 104744 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Martin | 104745 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ McLeod | 104742 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Meek er | 104746 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Morri son | 104747 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Mow er | 104748 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Murray | 104749 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Nicol let | 104750 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Nobles | 104751 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ | 104752 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |

| Norman | | | | | | |
|---|---|---|---|---|---|---|
| GCS_NAD_1983_HARN_Adj_MN_ Olmsted | 104753 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Ottertail | 104754 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Pennington | 104755 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Pine | 104756 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Pipestone | 104757 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Polk | 104758 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Pope | 104759 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Ramsey | 104760 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Red_ Lake | 104761 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Redwood | 104762 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Renville | 104763 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Rice | 104764 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Rock | 104765 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Roseau | 104766 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Scott | 104770 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Sherburne | 104771 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Sibley | 104772 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Stearns | 104773 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Steele | 104774 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Stevens | 104775 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_St_ Louis | 104786 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_St_ Louis_Central | 104768 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_St_ Louis_North | 104767 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_St_ Louis_South | 104769 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Swift | 104776 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Todd | 104777 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Traverse | 104778 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Waba sha | 104779 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Wade na | 104780 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Wase ca | 104781 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ Watonwan | 104782 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_Wino na | 104783 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_HARN_Adj_MN_ | 104784 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |

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| Wright | | | | | | |
| GCS_NAD_1983_HARN_Adj_MN_Yellow_Medicine | 104785 | USA - Minnesota | 43.500 | -97.240 | 49.390 | -89.470 |
| GCS_NAD_1983_MA11 | 104286 | Pacific Ocean | -78.800 | 99.300 | 65.600 | -70.000 |
| GCS_NAD_1983_MARP00 | 104260 | Pacific Ocean | -78.800 | 99.300 | 65.600 | -70.000 |
| GCS_NAD_1983_NSRS2007 | 4759 | USA - CONUS and Alaska; PRVI | 14.930 | 167.650 | 74.710 | -63.890 |
| GCS_NAD_1983_PA11 | 104287 | Pacific Ocean | -78.800 | 99.300 | 65.600 | -70.000 |
| GCS_NAD_1983_PACP00 | 104259 | Pacific Ocean | -78.800 | 99.300 | 65.600 | -70.000 |
| GCS_Nahrwan_1934 | 4744 | Asia - Middle East - SE Iraq and SW Iran | 29.000 | 44.300 | 33.500 | 50.830 |
| GCS_Nahrwan_1967 | 4270 | Asia - Middle East - Nahrwan | 22.630 | 38.820 | 37.410 | 56.380 |
| GCS_Naiad_2000 | 104964 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Nakhl-e_Ghanem | 4693 | Iran - Kangan district | 27.700 | 51.800 | 28.200 | 52.500 |
| GCS_Naparima_1955 | 4158 | Trinidad and Tobago - Trinidad - onshore | 9.990 | -61.970 | 10.890 | -60.860 |
| GCS_Naparima_1972 | 4271 | Trinidad and Tobago - Tobago - onshore | 11.090 | -60.890 | 11.400 | -60.470 |
| GCS_NEA74_Noumea | 4644 | New Caledonia - Grande Terre - Noumea | -22.350 | 166.300 | -22.100 | 166.500 |
| GCS_Nepal_Nagarkot | 104256 | Nepal | 26.360 | 80.100 | 30.460 | 88.250 |
| GCS_Neptune_2000 | 104960 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Nereid_2000 | 104965 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_New_Beijing | 4555 | China - onshore | 18.040 | 73.660 | 53.590 | 134.850 |
| GCS_New_Zealand_1949 | 4272 | New Zealand - onshore and nearshore | -47.400 | 166.330 | -34.000 | 178.600 |
| GCS_NGN | 4318 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| GCS_NGO_1948 | 4273 | Norway - onshore | 57.940 | 4.690 | 71.200 | 31.220 |
| GCS_NGO_1948_Oslo | 4817 | Norway - onshore | 57.940 | 4.690 | 71.200 | 31.220 |
| GCS_Nord_de_Guerre_Paris | 4902 | France - Alsace | 47.420 | 6.850 | 49.070 | 8.230 |
| GCS_Nord_Sahara_1959 | 4307 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Nord_Sahara_1959_Paris | 4819 | Africa - Algeria, Morocco and Tunisia | 18.980 | -13.170 | 37.340 | 11.990 |
| GCS_North_American_1927 | 4267 | North America - NAD27 | 7.980 | 167.650 | 83.160 | -47.740 |
| GCS_North_American_1983 | 4269 | North America - NAD83 | 14.930 | 167.650 | 86.450 | -47.740 |
| GCS_North_American_1983_CSRS | 4617 | Canada | 40.040 | -141.000 | 86.450 | -47.740 |
| GCS_North_American_1983_HARN | 4152 | USA - HARN | -14.580 | 144.580 | 49.380 | -64.510 |
| GCS_Nouakchott_1965 | 4680 | Mauritania - central coast | 17.300 | -16.670 | 19.360 | -15.750 |
| GCS_NSWC_9Z_2 | 4276 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_NTF | 4275 | France - onshore - mainland and Corsica | 41.310 | -4.870 | 51.140 | 9.630 |
| GCS_NTF_Paris | 4807 | France - onshore - mainland and Corsica | 41.310 | -4.870 | 51.140 | 9.630 |
| GCS_NWL_9D | 4025 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_NZGD_2000 | 4167 | New Zealand | -55.950 | 157.410 | -22.740 | -170.890 |
| GCS_Oberon_2000 | 104953 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Observatario | 4129 | Mozambique - south | -26.880 | 31.300 | -19.750 | 35.600 |
| GCS_Observatorio_Meteorologico_1939 | 37245 | Portugal - Azores W - onshore | 39.300 | -31.340 | 39.760 | -31.020 |
| GCS_Observatorio_Meteorologico_1965 | 104126 | China - Macao | 22.090 | 113.590 | 22.310 | 113.690 |
| GCS_Ocotepeque_1935 | 5451 | Costa Rica | 2.150 | -90.440 | 11.770 | -81.430 |
| GCS_Old_Hawaiian | 4135 | USA - Hawaii - | 18.880 | -160.300 | 22.290 | -154.750 |

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|---|---|---|---|---|---|---|
| | | onshore | | | | |
| GCS_Old_Hawaiian_Intl_1924 | 104138 | USA - Hawaii - onshore | 18.880 | -160.300 | 22.290 | -154.750 |
| GCS_Oman | 37206 | Oman | 14.010 | 51.900 | 26.750 | 63.050 |
| GCS_Ophelia_2000 | 104954 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_OSGB_1936 | 4277 | UK - Great Britain; Isle of Man | 49.810 | -8.730 | 60.890 | 1.830 |
| GCS_OSGB_1970_SN | 4278 | UK - Great Britain; Isle of Man | 49.810 | -8.730 | 60.890 | 1.830 |
| GCS_OSNI_1952 | 4188 | UK - Northern Ireland - onshore | 53.960 | -8.170 | 55.350 | -5.350 |
| GCS_OS_SN_1980 | 4279 | Europe - British Isles - UK and Ireland onshore | 49.810 | -10.560 | 60.890 | 1.830 |
| GCS_OSU_86F | 4032 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_OSU_91A | 4033 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Padang_1884 | 4280 | Indonesia - Sumatra | -6.500 | 95.000 | 6.000 | 108.550 |
| GCS_Padang_1884_Jakarta | 4808 | Indonesia - Sumatra | -6.500 | 95.000 | 6.000 | 108.550 |
| GCS_Palestine_1923 | 4281 | Asia - Middle East - Israel, Jordan and Palestine onshore | 29.190 | 34.220 | 33.380 | 39.300 |
| GCS_Pampa_del_Castillo | 4161 | Argentina - Comodoro Rivadavia | -46.700 | -69.500 | -45.200 | -67.100 |
| GCS_Pan_2000 | 104936 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Panama-Colon_1911 | 5467 | Panama - onshore | 7.160 | -83.030 | 9.670 | -77.200 |
| GCS_Pandora_2000 | 104937 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Pasiphae_2000 | 104922 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_PD/83 | 4746 | Germany - Thuringen | 50.200 | 9.920 | 51.640 | 12.560 |
| GCS_PDO_1993 | 4134 | Oman - onshore | 16.600 | 51.900 | 26.400 | 59.890 |
| GCS_Peru96 | 5373 | Peru | -21.050 | -84.670 | -0.040 | -68.670 |
| GCS_Petrels_1972 | 4636 | Antarctica - Adelie Land - Petrels island | -66.900 | 139.500 | -66.500 | 140.500 |
| GCS_Phobos_2000 | 104907 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Phoebe_2000 | 104938 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Pico_de_Las_Nieves | 4728 | Spain - Canary Islands onshore | 27.590 | -18.220 | 29.290 | -13.370 |
| GCS_Pitcairn_1967 | 4729 | Pitcairn - Pitcairn Island | -25.160 | -130.180 | -25.000 | -129.990 |
| GCS_Pitcairn_2006 | 4763 | Pitcairn - Pitcairn Island | -25.160 | -130.180 | -25.000 | -129.990 |
| GCS_Plessis_1817 | 4027 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Pluto_2000 | 104969 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_PNG94 | 5546 | Papua New Guinea (PNG) | -12.010 | 140.930 | 2.600 | 164.100 |
| GCS_Pohnpei | 104109 | Micronesia | 0.000 | 136.660 | 12.760 | 168.430 |
| GCS_Point_58 | 4620 | Africa - 12th parallel N | 10.000 | -16.810 | 14.000 | 22.970 |
| GCS_Pointe_Geologie_Perroud_1950 | 4637 | Antarctica - Adelie Land | -68.000 | 135.000 | -66.000 | 142.000 |
| GCS_Pointe_Noire | 4282 | Congo | -7.130 | 8.870 | 3.720 | 18.650 |
| GCS_Portia_2000 | 104955 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Porto_Santo_1936 | 4615 | Portugal - Madeira archipelago onshore | 32.360 | -17.300 | 33.140 | -16.230 |
| GCS_Porto_Santo_1995 | 4663 | Portugal - Madeira archipelago onshore | 32.360 | -17.300 | 33.140 | -16.230 |
| GCS_POSGAR | 4172 | Argentina | -58.400 | -73.580 | -21.780 | -52.630 |
| GCS_POSGAR_1994 | 4694 | Argentina | -58.400 | -73.580 | -21.780 | -52.630 |
| GCS_POSGAR_1998 | 4190 | Argentina | -58.400 | -73.580 | -21.780 | -52.630 |

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| GCS_POSGAR_2007 | 5340 | Argentina | -58.400 | -73.580 | -21.780 | -52.630 |
| GCS_Principe | 4824 | Sao Tome and Principe - onshore - Principe | 1.300 | 7.250 | 1.710 | 7.490 |
| GCS_Prometheus_2000 | 104939 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Proteus_2000 | 104966 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Provisional_S_American_1956 | 4248 | South America - PSAD56 by country | -45.000 | -81.400 | 12.680 | -48.000 |
| GCS_PRS_1992 | 4683 | Philippines | 2.250 | 116.090 | 21.430 | 140.080 |
| GCS_PTRA08 | 5013 | Portugal - Azores and Madeira Archipelagoes | 32.390 | -31.300 | 39.750 | -16.250 |
| GCS_Puck_2000 | 104956 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Puerto_Rico | 4139 | Caribbean - Puerto Rico and Virgin Islands - onshore | 17.630 | -67.960 | 18.770 | -64.250 |
| GCS_Pulkovo_1942 | 4284 | Europe - FSU onshore | 35.150 | 19.580 | 81.900 | -169.570 |
| GCS_Pulkovo_1942_Adj_1958 | 4179 | Europe - onshore - eastern - S-42(58) | 39.640 | 9.920 | 54.890 | 29.730 |
| GCS_Pulkovo_1942_Adj_1983 | 4178 | Europe - onshore - eastern - S-42(58) | 39.640 | 9.920 | 54.890 | 29.730 |
| GCS_Pulkovo_1995 | 4200 | Russia | 39.880 | 18.930 | 85.190 | -168.970 |
| GCS_PZ_1990 | 4740 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Qatar_1948 | 4286 | Qatar - onshore | 24.480 | 50.750 | 26.180 | 51.640 |
| GCS_Qatar_1974 | 4285 | Qatar - onshore | 24.480 | 50.750 | 26.180 | 51.640 |
| GCS_QND_1995 | 4614 | Qatar - onshore | 24.480 | 50.750 | 26.180 | 51.640 |
| GCS_Qornoq_1927 | 4194 | Greenland - west coast | 59.740 | -73.280 | 79.000 | -42.520 |
| GCS_Rassadiran | 4153 | Iran - Taheri refinery | 27.400 | 52.500 | 27.600 | 52.700 |
| GCS_RD/83 | 4745 | Germany - Sachsen | 50.210 | 11.900 | 51.660 | 15.030 |
| GCS_REGCAN95 | 4081 | Spain - Canary Islands | 24.600 | -21.930 | 32.750 | -11.750 |
| GCS_REGVEN | 4189 | Venezuela | 0.650 | -73.380 | 16.750 | -58.950 |
| GCS_Reunion_1947 | 4626 | Reunion - onshore | -21.400 | 55.200 | -20.800 | 55.800 |
| GCS_Reykjavik_1900 | 4657 | Iceland - onshore | 63.350 | -24.660 | 66.580 | -13.380 |
| GCS_RGAF09 | 5489 | Caribbean - French Antilles | 14.080 | -63.660 | 18.530 | -57.530 |
| GCS_RGF_1993 | 4171 | France | 41.150 | -9.860 | 51.560 | 10.380 |
| GCS_RGFG_1995 | 4624 | French Guiana | 2.110 | -54.600 | 8.880 | -49.460 |
| GCS_RGM_2004 | 4470 | Mayotte | -14.370 | 44.130 | -11.320 | 45.770 |
| GCS_RGNC_1991 | 4645 | New Caledonia | -23.460 | 157.090 | -17.260 | 173.890 |
| GCS_RGNC_1991-93 | 4749 | New Caledonia | -23.460 | 157.090 | -17.260 | 173.890 |
| GCS_RGPF | 4687 | French Polynesia | -29.000 | -155.000 | -7.000 | -132.000 |
| GCS_RGR_1992 | 4627 | Reunion | -25.920 | 37.580 | -10.600 | 58.270 |
| GCS_RGRDC_2005 | 4046 | Congo DR (Zaire) - south | -13.460 | 28.500 | -3.300 | 30.780 |
| GCS_RGSPM_2006 | 4463 | St Pierre and Miquelon | 43.420 | -57.100 | 47.370 | -55.900 |
| GCS_Rhea_2000 | 104940 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Roma_1940 | 104127 | Italy - including San Marino and Vatican | 34.770 | 5.940 | 47.090 | 18.990 |
| GCS_Rosalind_2000 | 104957 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_RRAF_1991 | 4558 | Caribbean - French Antilles | 14.080 | -63.660 | 18.530 | -57.530 |
| GCS_RSRGD2000 | 4764 | Antarctica - Ross Sea Region | -90.000 | 145.000 | -60.000 | -140.000 |
| GCS_RT_1990 | 4124 | Sweden | 54.960 | 10.030 | 69.060 | 24.170 |
| GCS_RT38 | 4308 | Sweden - onshore | 55.290 | 10.940 | 69.060 | 24.170 |
| GCS_RT38_Stockholm | 4814 | Sweden - onshore | 55.290 | 10.940 | 69.060 | 24.170 |
| GCS_S42_Hungary | 37257 | Hungary | 45.750 | 16.110 | 48.580 | 22.890 |

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| GCS_SAD_1969_96 | 5527 | Brazil - SAD69 | -35.710 | -60.570 | 7.040 | -29.030 |
| GCS_Sainte_Anne | 4622 | Guadeloupe - Grande-Terre and surrounding islands - onshore | 15.800 | -61.850 | 16.540 | -60.970 |
| GCS_Saint_Pierre_et_Miquelon_1950 | 4638 | St Pierre and Miquelon - onshore | 46.700 | -56.470 | 47.180 | -56.070 |
| GCS_Samboja | 4125 | Indonesia - Kalimantan E - Mahakam delta | -1.350 | 116.900 | 0.000 | 118.000 |
| GCS_Santo_DOS_1965 | 4730 | Vanuatu - northern islands | -17.400 | 166.500 | -14.610 | 168.310 |
| GCS_Sao_Braz | 37249 | Portugal - Azores E - onshore | 36.880 | -25.910 | 37.960 | -24.960 |
| GCS_Sao_Tome | 4823 | Sao Tome and Principe - onshore - Sao Tome | -0.020 | 6.440 | 0.450 | 6.800 |
| GCS_Sapper_Hill_1943 | 4292 | Falkland Islands - onshore | -52.390 | -61.230 | -51.200 | -57.650 |
| GCS_Saturn_2000 | 104925 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Schwarzeck | 4293 | Namibia | -31.200 | 8.320 | -16.990 | 25.280 |
| GCS_Scoresbysund_1952 | 4195 | Greenland - Scoresbysund area | 68.660 | -29.680 | 74.580 | -19.890 |
| GCS_Segora | 4294 | Indonesia - Kalimantan SE | -5.720 | 114.000 | 2.500 | 118.000 |
| GCS_Selvagem_Grande_1938 | 4616 | Portugal - Selvagens onshore | 29.980 | -16.100 | 30.200 | -15.790 |
| GCS_Serindung | 4295 | Indonesia - Kalimantan E | -5.720 | 113.690 | 4.400 | 119.620 |
| GCS_Sibun_Gorge_1922 | 5464 | Belize - onshore | 15.890 | -89.220 | 18.490 | -87.730 |
| GCS_Sierra_Leone_1924 | 4174 | Sierra Leone - Freetown Peninsula | 8.100 | -13.330 | 8.600 | -13.000 |
| GCS_Sierra_Leone_1960 | 104103 | Sierra Leone | 4.270 | -15.680 | 10.000 | -10.270 |
| GCS_Sierra_Leone_1968 | 4175 | Sierra Leone - onshore | 6.890 | -13.300 | 10.000 | -10.270 |
| GCS_Sinope_2000 | 104923 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_SIRGAS | 4170 | South America - SIRGAS 1995 by country | -59.860 | -113.200 | 16.750 | -26.010 |
| GCS_SIRGAS_2000 | 4674 | Latin America - SIRGAS 2000 by country | -59.860 | -122.180 | 32.720 | -26.010 |
| GCS_SIRGAS-Chile | 5360 | Chile | -59.860 | -113.200 | -17.510 | -65.730 |
| GCS_SIRGAS_ES2007.8 | 5393 | El Salvador | 9.970 | -91.420 | 14.430 | -87.650 |
| GCS_SIRGAS-ROU98 | 5381 | Uruguay | -37.770 | -58.490 | -30.100 | -50.010 |
| GCS_S_JTSK | 4156 | Europe - Czechoslovakia | 47.740 | 12.090 | 51.050 | 22.560 |
| GCS_S_JTSK/05 | 5228 | Czech Republic | 48.580 | 12.090 | 51.050 | 18.850 |
| GCS_S_JTSK/05_Ferro | 5229 | Czech Republic | 48.580 | 12.090 | 51.050 | 18.850 |
| GCS_S_JTSK_Ferro | 4818 | Europe - Czechoslovakia | 47.740 | 12.090 | 51.050 | 22.560 |
| GCS_SLD99 | 5233 | Sri Lanka - onshore | 5.850 | 79.600 | 9.920 | 81.950 |
| GCS_Slovenia_1996 | 4765 | Slovenia | 45.430 | 13.380 | 46.880 | 16.610 |
| GCS_Solomon_1968 | 4718 | Solomon Islands | -13.260 | 154.090 | -3.500 | 171.100 |
| GCS_South_American_1969 | 4618 | South America - SAD69 by country | -45.000 | -81.400 | 12.510 | -29.030 |
| GCS_South_Asia_Singapore | 37207 | Singapore | 1.120 | 103.620 | 1.460 | 104.160 |
| GCS_South_Yemen | 4164 | Yemen - South Yemen | 12.000 | 42.500 | 15.000 | 53.000 |
| GCS_Sphere | 4035 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Sphere_ARC_INFO | 37008 | World | -90.000 | -180.000 | 90.000 | 180.000 |

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| GCS_Sphere_Clarke_1866_Authalic | 4052 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Sphere_EMEP | 104128 | Europe - LCC & LAEA | 24.600 | -35.580 | 84.160 | 44.820 |
| GCS_Sphere_GRS_1980_Authalic | 4047 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Sphere_International_1924_Authalic | 4053 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_SREF98 | 4075 | Serbia | 41.860 | 18.820 | 46.180 | 23.010 |
| GCS_ST71_Belep | 4643 | New Caledonia - Belep | -19.850 | 163.550 | -19.540 | 163.700 |
| GCS_ST84_Ile_des_Pins | 4642 | New Caledonia - Ile des Pins | -22.750 | 167.300 | -22.500 | 167.550 |
| GCS_ST87_Ouvea | 4750 | New Caledonia - Ouvea | -20.750 | 166.350 | -20.350 | 166.700 |
| GCS_St_George_Island | 4138 | USA - Alaska - St. George Island | 56.490 | -169.870 | 56.660 | -169.380 |
| GCS_St_Kitts_1955 | 4605 | St Kitts and Nevis - onshore | 17.070 | -62.910 | 17.460 | -62.500 |
| GCS_St_Lawrence_Island | 4136 | USA - Alaska - St. Lawrence Island | 62.900 | -171.960 | 63.830 | -168.590 |
| GCS_St_Lucia_1955 | 4606 | St Lucia - onshore | 13.660 | -61.130 | 14.160 | -60.830 |
| GCS_St_Paul_Island | 4137 | USA - Alaska - St. Paul Island | 57.060 | -170.500 | 57.270 | -170.050 |
| GCS_Struve_1860 | 4028 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_St_Vincent_1945 | 4607 | St Vincent and the Grenadines - onshore | 12.550 | -61.510 | 13.430 | -61.070 |
| GCS_Sudan | 4296 | Sudan | 8.750 | 21.840 | 22.250 | 39.410 |
| GCS_SVY21 | 4757 | Singapore | 1.120 | 103.620 | 1.460 | 104.160 |
| GCS_SWEREF99 | 4619 | Sweden | 54.960 | 10.030 | 69.060 | 24.170 |
| GCS_Swiss_TRF_1995 | 4151 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| GCS_Tahaa_1954 | 4629 | French Polynesia - Society Islands - Bora Bora, Huahine, Raiatea, Tahaa | -16.950 | -151.800 | -16.620 | -150.900 |
| GCS_Tahiti_1952 | 4628 | French Polynesia - Society Islands - Moorea and Tahiti | -17.910 | -149.960 | -17.450 | -149.070 |
| GCS_Tahiti_1979 | 4690 | French Polynesia - Society Islands - Tahiti | -17.910 | -149.690 | -17.450 | -149.070 |
| GCS_Tananarive_1925 | 4297 | Madagascar | -28.890 | 41.140 | -10.600 | 55.340 |
| GCS_Tananarive_1925_Paris | 4810 | Madagascar | -28.890 | 41.140 | -10.600 | 55.340 |
| GCS_Telesto_2000 | 104941 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Tern_Island_1961 | 4707 | USA - Hawaii - Tern Island and Sorel Atoll | 23.690 | -166.360 | 23.930 | -166.030 |
| GCS_Tete | 4127 | Mozambique - onshore | -26.880 | 30.230 | -10.400 | 40.900 |
| GCS_Tethys_2000 | 104942 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Thalassa_2000 | 104967 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Thebe_2000 | 104924 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Timbalai_1948 | 4298 | Asia - Brunei and East Malaysia | 0.850 | 109.550 | 7.350 | 119.260 |
| GCS_Titan_2000 | 104943 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Titania_2000 | 104958 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_TM65 | 4299 | Europe - Ireland (Republic and Ulster) - onshore | 51.400 | -10.560 | 55.430 | -5.350 |
| GCS_TM75 | 4300 | Europe - Ireland (Republic and Ulster) - | 51.400 | -10.560 | 55.430 | -5.350 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | onshore | | | | |
| GCS_Tokyo | 4301 | Asia - Japan and Korea | 24.250 | 123.680 | 45.490 | 145.810 |
| GCS_Trinidad_1903 | 4302 | Trinidad and Tobago - Trinidad | 9.830 | -62.080 | 11.500 | -60.000 |
| GCS_Tristan_1968 | 4734 | St Helena - Tristan da Cunha | -37.430 | -12.730 | -37.050 | -12.210 |
| GCS_Triton_2000 | 104968 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Trucial_Coast_1948 | 4303 | UAE - Abu Dhabi and Dubai - onshore | 22.600 | 51.570 | 26.000 | 54.000 |
| GCS_TUREF | 5252 | Turkey | 34.430 | 25.620 | 43.450 | 44.820 |
| GCS_TWD_1967 | 3821 | Taiwan - onshore | 21.800 | 119.400 | 25.400 | 122.050 |
| GCS_TWD_1997 | 3824 | Taiwan | 21.430 | 118.070 | 26.360 | 122.490 |
| GCS_Ukraine_2000 | 5561 | Ukraine | 43.190 | 22.150 | 52.380 | 40.180 |
| GCS_Umbriel_2000 | 104959 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Uranus_2000 | 104944 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Vanua_Levu_1915 | 4748 | Fiji - Vanua Levu and Taveuni | -17.050 | 178.250 | -16.000 | -179.500 |
| GCS_Venus_1985 | 104901 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Venus_2000 | 104902 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Vientiane_1982 | 4676 | Laos | 13.920 | 100.150 | 22.510 | 107.760 |
| GCS_Viti_Levu_1912 | 4752 | Fiji - Viti Levu | -18.600 | 177.020 | -17.260 | 178.870 |
| GCS_Viti_Levu_1916 | 4731 | Fiji - Viti Levu | -18.600 | 177.020 | -17.260 | 178.870 |
| GCS_VN_2000 | 4756 | Vietnam - onshore | 8.450 | 103.800 | 23.390 | 109.600 |
| GCS_Voirol_1875 | 4304 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_1875_Grad | 104139 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_1875_Paris | 4811 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_1879 | 4671 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_1879_Grad | 104140 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_1879_Paris | 4821 | Algeria - north of 32~N | 32.000 | -2.920 | 37.090 | 9.090 |
| GCS_Voirol_Unifie_1960 | 4305 | Africa - Algeria, Morocco and Tunisia | 18.980 | -13.170 | 37.340 | 11.990 |
| GCS_Voirol_Unifie_1960_Degree | 104305 | Africa - Algeria, Morocco and Tunisia | 18.980 | -13.170 | 37.340 | 11.990 |
| GCS_Voirol_Unifie_1960_Paris | 4812 | Africa - Algeria, Morocco and Tunisia | 18.980 | -13.170 | 37.340 | 11.990 |
| GCS_Wake_Eniwetok_1960 | 4732 | Marshall Islands - Eniwetok, Kwajalein and Wake islands | 8.640 | 162.030 | 19.340 | 168.000 |
| GCS_Wake_Island_1952 | 4733 | Marshall Islands - Wake Island | 19.260 | 166.580 | 19.340 | 166.660 |
| GCS_Walbeck | 37007 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_War_Office | 4029 | Not specified | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_WGS_1966 | 4760 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_WGS_1972 | 4322 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_WGS_1972_BE | 4324 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_WGS_1984 | 4326 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_WGS_1984_Major_Auxiliary_ Sphere | 104199 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| GCS_Xian_1980 | 4610 | China - onshore | 18.040 | 73.660 | 53.590 | 134.850 |
| GCS_Yacare | 4309 | Uruguay | -37.770 | -58.490 | -30.100 | -50.010 |
| GCS_Yemen_NGN_1996 | 4163 | Yemen | 11.610 | 41.440 | 19.010 | 55.030 |

| GCS_Yoff | 4310 | Senegal | 9.500 | -20.210 | 16.700 | -11.370 |
| GCS_Zanderij | 4311 | Suriname | 1.840 | -58.070 | 9.350 | -52.660 |

## *Table 2: Geographic coordinate systems: non-Greenwich or non-degree definitions*

| GCS Name | WKID | Prime Meridian | Angular Unit |
|---|---|---|---|
| GCS_ATF_Paris | 4901 | Paris | Grad |
| GCS_Batavia_Jakarta | 4813 | Jakarta | Degree |
| GCS_Belge_1950_Brussels | 4809 | Brussels | Degree |
| GCS_Bern_1898_Bern | 4801 | Bern | Degree |
| GCS_Bogota_Bogota | 4802 | Bogota | Degree |
| GCS_Carthage_Grad | 37225 | Greenwich | Grad |
| GCS_Carthage_Paris | 4816 | Paris | Grad |
| GCS_Greek_Athens | 4815 | Athens | Degree |
| GCS_Gunung_Segara_Jakarta | 4820 | Jakarta | Degree |
| GCS_Lisbon_1890_Lisbon | 4904 | Lisbon | Degree |
| GCS_Lisbon_Lisbon | 4803 | Lisbon | Degree |
| GCS_Madrid_1870_Madrid | 4903 | Madrid | Degree |
| GCS_Makassar_Jakarta | 4804 | Jakarta | Degree |
| GCS_Merchich | 4261 | Greenwich | Grad |
| GCS_MGI_Ferro | 4805 | Ferro | Degree |
| GCS_Monte_Mario_Rome | 4806 | Rome | Degree |
| GCS_NGO_1948_Oslo | 4817 | Oslo | Degree |
| GCS_Nord_de_Guerre_Paris | 4902 | Paris | Grad |
| GCS_Nord_Sahara_1959_Paris | 4819 | Paris | Grad |
| GCS_NTF_Paris | 4807 | Paris | Grad |
| GCS_Padang_1884_Jakarta | 4808 | Jakarta | Degree |
| GCS_RT38_Stockholm | 4814 | Stockholm | Degree |
| GCS_S_JTSK/05_Ferro | 5229 | Ferro | Degree |
| GCS_S_JTSK_Ferro | 4818 | Ferro | Degree |
| GCS_Tananarive_1925_Paris | 4810 | Paris | Grad |
| GCS_Voirol_1875_Grad | 104139 | Greenwich | Grad |
| GCS_Voirol_1875_Paris | 4811 | Paris | Grad |
| GCS_Voirol_1879_Grad | 104140 | Greenwich | Grad |
| GCS_Voirol_1879_Paris | 4821 | Paris | Grad |
| GCS_Voirol_Unifie_1960 | 4305 | Greenwich | Grad |
| GCS_Voirol_Unifie_1960_Paris | 4812 | Paris | Grad |

## *Table 3: Geodetic datums: well-known IDs and spheroids*

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Abidjan_1987 | 6143 | Clarke_1880_RGS |
| D_Accra | 6168 | War_Office |
| D_Adindan | 6201 | Clarke_1880_RGS |
| D_Adrastea_2000 | 106909 | Adrastea_2000_IAU_IAG |
| D_Afgooye | 6205 | Krasovsky_1940 |
| D_Agadez | 6206 | Clarke_1880_IGN |
| D_Ain_el_Abd_1970 | 6204 | International_1924 |
| D_Airy_1830 | 6001 | Airy_1830 |
| D_Airy_Modified | 6002 | Airy_Modified |
| D_Alaskan_Islands | 106260 | Clarke_1866 |
| D_Albanian_1987 | 6191 | Krasovsky_1940 |
| D_Amalthea_2000 | 106910 | Amalthea_2000_IAU_IAG |
| D_American_Samoa_1962 | 6169 | Clarke_1866 |
| D_Amersfoort | 6289 | Bessel_1841 |
| D_Ammassalik_1958 | 6196 | International_1924 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Ananke_2000 | 106911 | Ananke_2000_IAU_IAG |
| D_Anguilla_1957 | 6600 | Clarke_1880_RGS |
| D_Anna_1_1965 | 6708 | Australian |
| D_Antigua_1943 | 6601 | Clarke_1880_RGS |
| D_Aratu | 6208 | International_1924 |
| D_Arc_1950 | 6209 | Clarke_1880_Arc |
| D_Arc_1960 | 6210 | Clarke_1880_RGS |
| D_Ariel_2000 | 106945 | Ariel_2000_IAU_IAG |
| D_Ascension_Island_1958 | 6712 | International_1924 |
| D_Astro_1952 | 6711 | International_1924 |
| D_ATF | 6901 | Plessis_1817 |
| D_Atlas_2000 | 106926 | Atlas_2000_IAU_IAG |
| D_ATS_1977 | 6122 | ATS_1977 |
| D_Australian | 6003 | Australian |
| D_Australian_1966 | 6202 | Australian |
| D_Australian_1984 | 6203 | Australian |
| D_Australian_Antarctic_1998 | 6176 | GRS_1980 |
| D_Ayabelle | 6713 | Clarke_1880_RGS |
| D_Azores_Central_Islands_1948 | 6183 | International_1924 |
| D_Azores_Central_Islands_1995 | 6665 | International_1924 |
| D_Azores_Occidental_Islands_1939 | 6182 | International_1924 |
| D_Azores_Oriental_Islands_1940 | 6184 | International_1924 |
| D_Azores_Oriental_Islands_1995 | 6664 | International_1924 |
| D_Bab_South | 106269 | Clarke_1866 |
| D_Barbados_1938 | 6212 | Clarke_1880_RGS |
| D_Batavia | 6211 | Bessel_1841 |
| D_Beacon_E_1945 | 6709 | International_1924 |
| D_Beduaram | 6213 | Clarke_1880_IGN |
| D_Beijing_1954 | 6214 | Krasovsky_1940 |
| D_Belge_1950 | 6215 | International_1924 |
| D_Belge_1972 | 6313 | International_1924 |
| D_Belinda_2000 | 106946 | Belinda_2000_IAU_IAG |
| D_Bellevue_IGN | 6714 | International_1924 |
| D_Bermuda_1957 | 6216 | Clarke_1866 |
| D_Bermuda_2000 | 6762 | WGS_1984 |
| D_Bern_1898 | 6217 | Bessel_1841 |
| D_Bern_1938 | 6306 | Bessel_1841 |
| D_Bessel_1841 | 6004 | Bessel_1841 |
| D_Bessel_Modified | 6005 | Bessel_Modified |
| D_Bessel_Namibia | 6006 | Bessel_Namibia |
| D_Bhutan_National_Geodetic_Datum | 1058 | GRS_1980 |
| D_Bianca_2000 | 106947 | Bianca_2000_IAU_IAG |
| D_Bissau | 6165 | International_1924 |
| D_Bogota | 6218 | International_1924 |
| D_Bukit_Rimpah | 6219 | Bessel_1841 |
| D_Cadastre_1997 | 1037 | International_1924 |
| D_Callisto_2000 | 106912 | Callisto_2000_IAU_IAG |
| D_Calypso_2000 | 106927 | Calypso_2000_IAU_IAG |
| D_Camacupa | 6220 | Clarke_1880_RGS |
| D_Camp_Area | 6715 | International_1924 |
| D_Campo_Inchauspe | 6221 | International_1924 |
| D_Canton_1966 | 6716 | International_1924 |
| D_Cape | 6222 | Clarke_1880_Arc |
| D_Cape_Canaveral | 6717 | Clarke_1866 |
| D_Carme_2000 | 106913 | Carme_2000_IAU_IAG |
| D_Carthage | 6223 | Clarke_1880_IGN |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_CH1903 | 6149 | Bessel_1841 |
| D_CH1903+ | 6150 | Bessel_1841 |
| D_Charon_2000 | 106970 | Charon_2000_IAU_IAG |
| D_Chatham_Island_1971 | 6672 | International_1924 |
| D_Chatham_Islands_1979 | 6673 | International_1924 |
| D_China_2000 | 1043 | CGCS2000 |
| D_Chos_Malal_1914 | 6160 | International_1924 |
| D_Chua | 6224 | International_1924 |
| D_Clarke_1858 | 6007 | Clarke_1858 |
| D_Clarke_1866 | 6008 | Clarke_1866 |
| D_Clarke_1866_Michigan | 6009 | Clarke_1866_Michigan |
| D_Clarke_1880 | 6034 | Clarke_1880 |
| D_Clarke_1880_Arc | 6013 | Clarke_1880_Arc |
| D_Clarke_1880_Benoit | 6010 | Clarke_1880_Benoit |
| D_Clarke_1880_IGN | 6011 | Clarke_1880_IGN |
| D_Clarke_1880_RGS | 6012 | Clarke_1880_RGS |
| D_Clarke_1880_SGA | 6014 | Clarke_1880_SGA |
| D_Combani_1950 | 6632 | International_1924 |
| D_Conakry_1905 | 6315 | Clarke_1880_IGN |
| D_Cordelia_2000 | 106948 | Cordelia_2000_IAU_IAG |
| D_Corrego_Alegre | 6225 | International_1924 |
| D_Corrego_Alegre_1961 | 1074 | International_1924 |
| D_Costa_Rica_2005 | 1065 | WGS_1984 |
| D_Cote_d_Ivoire | 6226 | Clarke_1880_IGN |
| D_Cressida_2000 | 106949 | Cressida_2000_IAU_IAG |
| D_Croatian_Terrestrial_Reference_System | 6761 | GRS_1980 |
| D_CSG_1967 | 6623 | International_1924 |
| D_Cyprus_Geodetic_Reference_System_1993 | 106225 | WGS_1984 |
| D_D48 | 106278 | Bessel_1841 |
| D_Dabola_1981 | 6155 | Clarke_1880_IGN |
| D_Datum_73 | 6274 | International_1924 |
| D_Datum_Geodesi_Nasional_1995 | 6755 | WGS_1984 |
| D_Datum_Lisboa_Bessel | 106262 | Bessel_1841 |
| D_Datum_Lisboa_Hayford | 106263 | International_1924 |
| D_Dealul_Piscului_1933 | 6316 | International_1924 |
| D_Dealul_Piscului_1970 | 6317 | Krasovsky_1940 |
| D_Deception_Island | 6736 | Clarke_1880_RGS |
| D_Deimos_2000 | 106906 | Deimos_2000_IAU_IAG |
| D_Deir_ez_Zor | 6227 | Clarke_1880_IGN |
| D_Desdemona_2000 | 106950 | Desdemona_2000_IAU_IAG |
| D_Despina_2000 | 106961 | Despina_2000_IAU_IAG |
| D_Deutsches_Hauptdreiecksnetz | 6314 | Bessel_1841 |
| D_Dione_2000 | 106928 | Dione_2000_IAU_IAG |
| D_Dominica_1945 | 6602 | Clarke_1880_RGS |
| D_DOS_1968 | 106218 | International_1924 |
| D_DOS_71_4 | 6710 | International_1924 |
| D_Douala | 6228 | Clarke_1880_IGN |
| D_Douala_1948 | 6192 | International_1924 |
| D_Easter_Island_1967 | 6719 | International_1924 |
| D_Egypt_1907 | 6229 | Helmert_1906 |
| D_Egypt_1930 | 6199 | International_1924 |
| D_Egypt_Gulf_of_Suez_S-650_TL | 6706 | Helmert_1906 |
| D_Elara_2000 | 106914 | Elara_2000_IAU_IAG |
| D_Enceladus_2000 | 106929 | Enceladus_2000_IAU_IAG |
| D_Epimetheus_2000 | 106930 | Epimetheus_2000_IAU_IAG |
| D_Estonia_1937 | 106101 | Bessel_1841 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Estonia_1992 | 6133 | GRS_1980 |
| D_Estonia_1997 | 6180 | GRS_1980 |
| D_ETRF_1989 | 106258 | WGS_1984 |
| D_ETRS_1989 | 6258 | GRS_1980 |
| D_Europa_2000 | 106915 | Europa_2000_IAU_IAG |
| D_European_1950 | 6230 | International_1924 |
| D_European_1950_ED77 | 6154 | International_1924 |
| D_European_1979 | 6668 | International_1924 |
| D_European_1987 | 6231 | International_1924 |
| D_European_Libyan_1979 | 6159 | International_1924 |
| D_Everest_1830 | 6042 | Everest_1830 |
| D_Everest_Adj_1937 | 6015 | Everest_Adjustment_1937 |
| D_Everest_Bangladesh | 106202 | Everest_Adjustment_1937 |
| D_Everest_Def_1962 | 6044 | Everest_Definition_1962 |
| D_Everest_Def_1967 | 6016 | Everest_Definition_1967 |
| D_Everest_Def_1975 | 6045 | Everest_Definition_1975 |
| D_Everest_India_Nepal | 106203 | Everest_Definition_1962 |
| D_Everest_Modified | 6018 | Everest_1830_Modified |
| D_Everest_Modified_1969 | 106006 | Everest_Modified_1969 |
| D_Fahud | 6232 | Clarke_1880_RGS |
| D_Faroe_Datum_1954 | 6741 | International_1924 |
| D_Fatu_Iva_1972 | 6688 | International_1924 |
| D_FD_1958 | 6132 | Clarke_1880_RGS |
| D_Fiji_1956 | 6721 | International_1924 |
| D_Fiji_1986 | 6720 | WGS_1972 |
| D_Fischer_1960 | 106002 | Fischer_1960 |
| D_Fischer_1968 | 106003 | Fischer_1968 |
| D_Fischer_Modified | 106004 | Fischer_Modified |
| D_fk89 | 6753 | International_1924 |
| D_Fort_Desaix | 6625 | International_1924 |
| D_Fort_Marigot | 6621 | International_1924 |
| D_Fort_Thomas_1955 | 106240 | Clarke_1880_RGS |
| D_Galatea_2000 | 106962 | Galatea_2000_IAU_IAG |
| D_Gan_1970 | 6684 | International_1924 |
| D_Ganymede_2000 | 106916 | Ganymede_2000_IAU_IAG |
| D_Garoua | 6234 | Clarke_1880_IGN |
| D_GDA_1994 | 6283 | GRS_1980 |
| D_GDBD2009 | 1056 | GRS_1980 |
| D_GDM_2000 | 6742 | GRS_1980 |
| D_GEM_10C | 6031 | GEM_10C |
| D_GGRS_1987 | 6121 | GRS_1980 |
| D_Graciosa_Base_SW_1948 | 106241 | International_1924 |
| D_Grand_Cayman_1959 | 6723 | Clarke_1866 |
| D_Grand_Comoros | 6646 | International_1924 |
| D_Greek | 6120 | Bessel_1841 |
| D_Greenland_1996 | 6747 | GRS_1980 |
| D_Grenada_1953 | 6603 | Clarke_1880_RGS |
| D_GRS_1967 | 6036 | GRS_1967 |
| D_GRS_1980 | 6019 | GRS_1980 |
| D_Guam_1963 | 6675 | Clarke_1866 |
| D_Gulshan_303 | 6682 | Everest_Adjustment_1937 |
| D_Gunung_Segara | 6613 | Bessel_1841 |
| D_GUX_1 | 106221 | International_1924 |
| D_Guyane_Francaise | 6235 | International_1924 |
| D_Hanoi_1972 | 6147 | Krasovsky_1940 |
| D_Hartebeesthoek_1994 | 6148 | WGS_1984 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Helene_2000 | 106931 | Helene_2000_IAU_IAG |
| D_Helle_1954 | 6660 | International_1924 |
| D_Helmert_1906 | 6020 | Helmert_1906 |
| D_Herat_North | 6255 | International_1924 |
| D_Hermannskogel | 106102 | Bessel_1841 |
| D_Himalia_2000 | 106917 | Himalia_2000_IAU_IAG |
| D_Hito_XVIII_1963 | 6254 | International_1924 |
| D_Hjorsey_1955 | 6658 | International_1924 |
| D_Hong_Kong_1963 | 6738 | Clarke_1858 |
| D_Hong_Kong_1963_67 | 6739 | International_1924 |
| D_Hong_Kong_1980 | 6611 | International_1924 |
| D_Hough_1960 | 106005 | Hough_1960 |
| D_Hughes_1980 | 6054 | Hughes_1980 |
| D_Hungarian_1972 | 6237 | GRS_1967 |
| D_Hungarian_Datum_1909 | 1024 | Bessel_1841 |
| D_Hu_Tzu_Shan | 6236 | International_1924 |
| D_Hyperion_2000 | 106932 | Hyperion_2000_IAU_IAG |
| D_Iapetus_2000 | 106933 | Iapetus_2000_IAU_IAG |
| D_IGC_1962_Arc_of_the_6th_Parallel_South | 6697 | Clarke_1880_RGS |
| D_IGM_1995 | 6670 | WGS_1984 |
| D_IGN53_Mare | 6641 | International_1924 |
| D_IGN56_Lifou | 6633 | International_1924 |
| D_IGN63_Hiva_Oa | 6689 | International_1924 |
| D_IGN72_Grande_Terre | 6634 | International_1924 |
| D_IGN72_Nuku_Hiva | 6630 | International_1924 |
| D_IGN_Astro_1960 | 6700 | Clarke_1880_RGS |
| D_Indian_1954 | 6239 | Everest_Adjustment_1937 |
| D_Indian_1960 | 6131 | Everest_Adjustment_1937 |
| D_Indian_1975 | 6240 | Everest_Adjustment_1937 |
| D_Indonesian | 6021 | Indonesian |
| D_Indonesian_1974 | 6238 | Indonesian |
| D_Institut_Geographique_du_Congo_Belge_1955 | 6701 | Clarke_1880_RGS |
| D_International_1924 | 6022 | International_1924 |
| D_International_1967 | 6023 | International_1967 |
| D_Io_2000 | 106918 | Io_2000_IAU_IAG |
| D_Iraqi_Geospatial_Reference_System | 1029 | GRS_1980 |
| D_Iraq_Kuwait_Boundary_1992 | 6667 | WGS_1984 |
| D_IRENET95 | 6173 | GRS_1980 |
| D_Islands_Network_1993 | 6659 | GRS_1980 |
| D_Islands_Network_2004 | 1060 | GRS_1980 |
| D_Israel | 6141 | GRS_1980 |
| D_ISTS_061_1968 | 6722 | International_1924 |
| D_ISTS_073_1969 | 6724 | International_1924 |
| D_ITRF_1988 | 6647 | GRS_1980 |
| D_ITRF_1989 | 6648 | GRS_1980 |
| D_ITRF_1990 | 6649 | GRS_1980 |
| D_ITRF_1991 | 6650 | GRS_1980 |
| D_ITRF_1992 | 6651 | GRS_1980 |
| D_ITRF_1993 | 6652 | GRS_1980 |
| D_ITRF_1994 | 6653 | GRS_1980 |
| D_ITRF_1996 | 6654 | GRS_1980 |
| D_ITRF_1997 | 6655 | GRS_1980 |
| D_ITRF_2000 | 6656 | GRS_1980 |
| D_ITRF_2005 | 6896 | GRS_1980 |
| D_ITRF_2008 | 1061 | GRS_1980 |
| D_Jamaica_1875 | 6241 | Clarke_1880 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Jamaica_1969 | 6242 | Clarke_1866 |
| D_Jamaica_2001 | 6758 | WGS_1984 |
| D_Janus_2000 | 106934 | Janus_2000_IAU_IAG |
| D_JGD_2000 | 6612 | GRS_1980 |
| D_Johnston_Island_1961 | 6725 | International_1924 |
| D_Jordan | 106277 | International_1924 |
| D_Jouik_1961 | 6679 | Clarke_1880_RGS |
| D_Juliet_2000 | 106951 | Juliet_2000_IAU_IAG |
| D_Jupiter_2000 | 106908 | Jupiter_2000_IAU_IAG |
| D_Kalianpur_1880 | 6243 | Everest_1830 |
| D_Kalianpur_1937 | 6144 | Everest_Adjustment_1937 |
| D_Kalianpur_1962 | 6145 | Everest_Definition_1962 |
| D_Kalianpur_1975 | 6146 | Everest_Definition_1975 |
| D_Kandawala | 6244 | Everest_Adjustment_1937 |
| D_Karbala_1979_Polservice | 6743 | Clarke_1880_RGS |
| D_Kasai_1953 | 6696 | Clarke_1880_RGS |
| D_Katanga_1955 | 6695 | Clarke_1866 |
| D_Kerguelen_Island_1949 | 6698 | International_1924 |
| D_Kertau | 6245 | Everest_1830_Modified |
| D_Kertau_RSO | 6751 | Everest_Modified_1969 |
| D_KKJ | 6123 | International_1924 |
| D_Korea_2000 | 6737 | GRS_1980 |
| D_Korean_Datum_1985 | 6162 | Bessel_1841 |
| D_Korean_Datum_1995 | 6166 | WGS_1984 |
| D_Kousseri | 6198 | Clarke_1880_RGS |
| D_Krasovsky_1940 | 6024 | Krasovsky_1940 |
| D_Kusaie_1951 | 6735 | International_1924 |
| D_Kuwait_Oil_Company | 6246 | Clarke_1880_RGS |
| D_Kuwait_Utility | 6319 | GRS_1980 |
| D_La_Canoa | 6247 | International_1924 |
| D_Lake | 6249 | International_1924 |
| D_Lao_1993 | 6677 | Krasovsky_1940 |
| D_Lao_National_Datum_1997 | 6678 | Krasovsky_1940 |
| D_Larissa_2000 | 106963 | Larissa_2000_IAU_IAG |
| D_Latvia_1992 | 6661 | GRS_1980 |
| D_LC5_1961 | 106243 | Clarke_1866 |
| D_Leda_2000 | 106919 | Leda_2000_IAU_IAG |
| D_Leigon | 6250 | Clarke_1880_RGS |
| D_Le_Pouce_1934 | 6699 | Clarke_1880_RGS |
| D_Liberia_1964 | 6251 | Clarke_1880_RGS |
| D_Libyan_Geodetic_Datum_2006 | 6754 | International_1924 |
| D_Lisbon | 6207 | International_1924 |
| D_Lisbon_1890 | 6666 | Bessel_1841 |
| D_Lithuania_1994 | 6126 | GRS_1980 |
| D_Little_Cayman_1961 | 6726 | Clarke_1866 |
| D_Locodjo_1965 | 6142 | Clarke_1880_RGS |
| D_Loma_Quintana | 6288 | International_1924 |
| D_Lome | 6252 | Clarke_1880_IGN |
| D_Luxembourg_1930 | 6181 | International_1924 |
| D_Luzon_1911 | 6253 | Clarke_1866 |
| D_Lysithea_2000 | 106920 | Lysithea_2000_IAU_IAG |
| D_Madeira_1936 | 6185 | International_1924 |
| D_Madrid_1870 | 6903 | Struve_1860 |
| D_Madzansua | 6128 | Clarke_1866 |
| D_MAGNA | 6686 | GRS_1980 |
| D_Mahe_1971 | 6256 | Clarke_1880_RGS |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Majuro | 106270 | Clarke_1866 |
| D_Makassar | 6257 | Bessel_1841 |
| D_Malongo_1987 | 6259 | International_1924 |
| D_Manoca | 6260 | Clarke_1880_RGS |
| D_Manoca_1962 | 6193 | Clarke_1880_IGN |
| D_Marco_Geodesico_Nacional | 1063 | GRS_1980 |
| D_Mars_1979 | 106904 | Mars_1979_IAU_IAG |
| D_Mars_2000 | 106905 | Mars_2000_IAU_IAG |
| D_Massawa | 6262 | Bessel_1841 |
| D_Maupiti_1983 | 6692 | International_1924 |
| D_Mauritania_1999 | 6702 | GRS_1980 |
| D_Merchich | 6261 | Clarke_1880_IGN |
| D_Mercury_2000 | 106900 | Mercury_2000_IAU_IAG |
| D_Metis_2000 | 106921 | Metis_2000_IAU_IAG |
| D_Mexican_Datum_of_1993 | 1042 | GRS_1980 |
| D_MGI | 6312 | Bessel_1841 |
| D_MGI_1901 | 1031 | Bessel_1841 |
| D_Mhast_1951 | 6703 | Clarke_1880_RGS |
| D_Mhast_Offshore | 6705 | International_1924 |
| D_Mhast_Onshore | 6704 | International_1924 |
| D_Midway_1961 | 6727 | International_1924 |
| D_Mimas_2000 | 106935 | Mimas_2000_IAU_IAG |
| D_Minna | 6263 | Clarke_1880_RGS |
| D_Miranda_2000 | 106952 | Miranda_2000_IAU_IAG |
| D_MOLDREF99 | 1032 | GRS_1980 |
| D_Monte_Mario | 6265 | International_1924 |
| D_Montserrat_1958 | 6604 | Clarke_1880_RGS |
| D_Moon_2000 | 106903 | Moon_2000_IAU_IAG |
| D_Moorea_1987 | 6691 | International_1924 |
| D_MOP78 | 6639 | International_1924 |
| D_Mount_Dillon | 6157 | Clarke_1858 |
| D_Moznet | 6130 | WGS_1984 |
| D_Mporaloko | 6266 | Clarke_1880_IGN |
| D_NAD_1927_CGQ77 | 6609 | Clarke_1866 |
| D_NAD_1927_Definition_1976 | 6608 | Clarke_1866 |
| D_NAD_1983_2011 | 106285 | GRS_1980 |
| D_NAD_1983_CORS96 | 106223 | GRS_1980 |
| D_NAD_1983_HARN_Adj_MN_Anoka | 106700 | S_GRS_1980_Adj_MN_Anoka |
| D_NAD_1983_HARN_Adj_MN_Becker | 106701 | S_GRS_1980_Adj_MN_Becker |
| D_NAD_1983_HARN_Adj_MN_Beltrami_North | 106702 | S_GRS_1980_Adj_MN_Beltrami_North |
| D_NAD_1983_HARN_Adj_MN_Beltrami_South | 106703 | S_GRS_1980_Adj_MN_Beltrami_South |
| D_NAD_1983_HARN_Adj_MN_Benton | 106704 | S_GRS_1980_Adj_MN_Benton |
| D_NAD_1983_HARN_Adj_MN_Big_Stone | 106705 | S_GRS_1980_Adj_MN_Big_Stone |
| D_NAD_1983_HARN_Adj_MN_Blue_Earth | 106706 | S_GRS_1980_Adj_MN_Blue_Earth |
| D_NAD_1983_HARN_Adj_MN_Brown | 106707 | S_GRS_1980_Adj_MN_Brown |
| D_NAD_1983_HARN_Adj_MN_Carlton | 106708 | S_GRS_1980_Adj_MN_Carlton |
| D_NAD_1983_HARN_Adj_MN_Carver | 106709 | S_GRS_1980_Adj_MN_Carver |
| D_NAD_1983_HARN_Adj_MN_Cass_North | 106710 | S_GRS_1980_Adj_MN_Cass_North |
| D_NAD_1983_HARN_Adj_MN_Cass_South | 106711 | S_GRS_1980_Adj_MN_Cass_South |
| D_NAD_1983_HARN_Adj_MN_Chippewa | 106712 | S_GRS_1980_Adj_MN_Chippewa |
| D_NAD_1983_HARN_Adj_MN_Chisago | 106713 | S_GRS_1980_Adj_MN_Chisago |
| D_NAD_1983_HARN_Adj_MN_Cook_North | 106714 | S_GRS_1980_Adj_MN_Cook_North |
| D_NAD_1983_HARN_Adj_MN_Cook_South | 106715 | S_GRS_1980_Adj_MN_Cook_South |
| D_NAD_1983_HARN_Adj_MN_Cottonwood | 106716 | S_GRS_1980_Adj_MN_Cottonwood |
| D_NAD_1983_HARN_Adj_MN_Crow_Wing | 106717 | S_GRS_1980_Adj_MN_Crow_Wing |
| D_NAD_1983_HARN_Adj_MN_Dakota | 106718 | S_GRS_1980_Adj_MN_Dakota |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_NAD_1983_HARN_Adj_MN_Dodge | 106719 | S_GRS_1980_Adj_MN_Dodge |
| D_NAD_1983_HARN_Adj_MN_Douglas | 106720 | S_GRS_1980_Adj_MN_Douglas |
| D_NAD_1983_HARN_Adj_MN_Faribault | 106721 | S_GRS_1980_Adj_MN_Faribault |
| D_NAD_1983_HARN_Adj_MN_Fillmore | 106722 | S_GRS_1980_Adj_MN_Fillmore |
| D_NAD_1983_HARN_Adj_MN_Freeborn | 106723 | S_GRS_1980_Adj_MN_Freeborn |
| D_NAD_1983_HARN_Adj_MN_Goodhue | 106724 | S_GRS_1980_Adj_MN_Goodhue |
| D_NAD_1983_HARN_Adj_MN_Grant | 106725 | S_GRS_1980_Adj_MN_Grant |
| D_NAD_1983_HARN_Adj_MN_Hennepin | 106726 | S_GRS_1980_Adj_MN_Hennepin |
| D_NAD_1983_HARN_Adj_MN_Houston | 106727 | S_GRS_1980_Adj_MN_Houston |
| D_NAD_1983_HARN_Adj_MN_Isanti | 106728 | S_GRS_1980_Adj_MN_Isanti |
| D_NAD_1983_HARN_Adj_MN_Itasca_North | 106729 | S_GRS_1980_Adj_MN_Itasca_North |
| D_NAD_1983_HARN_Adj_MN_Itasca_South | 106730 | S_GRS_1980_Adj_MN_Itasca_South |
| D_NAD_1983_HARN_Adj_MN_Jackson | 106731 | S_GRS_1980_Adj_MN_Jackson |
| D_NAD_1983_HARN_Adj_MN_Kanabec | 106732 | S_GRS_1980_Adj_MN_Kanabec |
| D_NAD_1983_HARN_Adj_MN_Kandiyohi | 106733 | S_GRS_1980_Adj_MN_Kandiyohi |
| D_NAD_1983_HARN_Adj_MN_Kittson | 106734 | S_GRS_1980_Adj_MN_Kittson |
| D_NAD_1983_HARN_Adj_MN_Koochiching | 106735 | S_GRS_1980_Adj_MN_Koochiching |
| D_NAD_1983_HARN_Adj_MN_Lac_Qui_Parle | 106736 | S_GRS_1980_Adj_MN_Lac_Qui_Parle |
| D_NAD_1983_HARN_Adj_MN_Lake_of_the_Woods_North | 106737 | S_GRS_1980_Adj_MN_Lake_of_the_Woods_North |
| D_NAD_1983_HARN_Adj_MN_Lake_of_the_Woods_South | 106738 | S_GRS_1980_Adj_MN_Lake_of_the_Woods_South |
| D_NAD_1983_HARN_Adj_MN_Le_Sueur | 106739 | S_GRS_1980_Adj_MN_Le_Sueur |
| D_NAD_1983_HARN_Adj_MN_Lincoln | 106740 | S_GRS_1980_Adj_MN_Lincoln |
| D_NAD_1983_HARN_Adj_MN_Lyon | 106741 | S_GRS_1980_Adj_MN_Lyon |
| D_NAD_1983_HARN_Adj_MN_Mahnomen | 106743 | S_GRS_1980_Adj_MN_Mahnomen |
| D_NAD_1983_HARN_Adj_MN_Marshall | 106744 | S_GRS_1980_Adj_MN_Marshall |
| D_NAD_1983_HARN_Adj_MN_Martin | 106745 | S_GRS_1980_Adj_MN_Martin |
| D_NAD_1983_HARN_Adj_MN_McLeod | 106742 | S_GRS_1980_Adj_MN_McLeod |
| D_NAD_1983_HARN_Adj_MN_Meeker | 106746 | S_GRS_1980_Adj_MN_Meeker |
| D_NAD_1983_HARN_Adj_MN_Morrison | 106747 | S_GRS_1980_Adj_MN_Morrison |
| D_NAD_1983_HARN_Adj_MN_Mower | 106748 | S_GRS_1980_Adj_MN_Mower |
| D_NAD_1983_HARN_Adj_MN_Murray | 106749 | S_GRS_1980_Adj_MN_Murray |
| D_NAD_1983_HARN_Adj_MN_Nicollet | 106750 | S_GRS_1980_Adj_MN_Nicollet |
| D_NAD_1983_HARN_Adj_MN_Nobles | 106751 | S_GRS_1980_Adj_MN_Nobles |
| D_NAD_1983_HARN_Adj_MN_Norman | 106752 | S_GRS_1980_Adj_MN_Norman |
| D_NAD_1983_HARN_Adj_MN_Olmsted | 106753 | S_GRS_1980_Adj_MN_Olmsted |
| D_NAD_1983_HARN_Adj_MN_Ottertail | 106754 | S_GRS_1980_Adj_MN_Ottertail |
| D_NAD_1983_HARN_Adj_MN_Pennington | 106755 | S_GRS_1980_Adj_MN_Pennington |
| D_NAD_1983_HARN_Adj_MN_Pine | 106756 | S_GRS_1980_Adj_MN_Pine |
| D_NAD_1983_HARN_Adj_MN_Pipestone | 106757 | S_GRS_1980_Adj_MN_Pipestone |
| D_NAD_1983_HARN_Adj_MN_Polk | 106758 | S_GRS_1980_Adj_MN_Polk |
| D_NAD_1983_HARN_Adj_MN_Pope | 106759 | S_GRS_1980_Adj_MN_Pope |
| D_NAD_1983_HARN_Adj_MN_Ramsey | 106760 | S_GRS_1980_Adj_MN_Ramsey |
| D_NAD_1983_HARN_Adj_MN_Red_Lake | 106761 | S_GRS_1980_Adj_MN_Red_Lake |
| D_NAD_1983_HARN_Adj_MN_Redwood | 106762 | S_GRS_1980_Adj_MN_Redwood |
| D_NAD_1983_HARN_Adj_MN_Renville | 106763 | S_GRS_1980_Adj_MN_Renville |
| D_NAD_1983_HARN_Adj_MN_Rice | 106764 | S_GRS_1980_Adj_MN_Rice |
| D_NAD_1983_HARN_Adj_MN_Rock | 106765 | S_GRS_1980_Adj_MN_Rock |
| D_NAD_1983_HARN_Adj_MN_Roseau | 106766 | S_GRS_1980_Adj_MN_Roseau |
| D_NAD_1983_HARN_Adj_MN_Scott | 106770 | S_GRS_1980_Adj_MN_Scott |
| D_NAD_1983_HARN_Adj_MN_Sherburne | 106771 | S_GRS_1980_Adj_MN_Sherburne |
| D_NAD_1983_HARN_Adj_MN_Sibley | 106772 | S_GRS_1980_Adj_MN_Sibley |
| D_NAD_1983_HARN_Adj_MN_Stearns | 106773 | S_GRS_1980_Adj_MN_Stearns |
| D_NAD_1983_HARN_Adj_MN_Steele | 106774 | S_GRS_1980_Adj_MN_Steele |
| D_NAD_1983_HARN_Adj_MN_Stevens | 106775 | S_GRS_1980_Adj_MN_Stevens |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_NAD_1983_HARN_Adj_MN_St_Louis | 106786 | S_GRS_1980_Adj_MN_St_Louis |
| D_NAD_1983_HARN_Adj_MN_St_Louis_Central | 106768 | S_GRS_1980_Adj_MN_St_Louis_Central |
| D_NAD_1983_HARN_Adj_MN_St_Louis_North | 106767 | S_GRS_1980_Adj_MN_St_Louis_North |
| D_NAD_1983_HARN_Adj_MN_St_Louis_South | 106769 | S_GRS_1980_Adj_MN_St_Louis_South |
| D_NAD_1983_HARN_Adj_MN_Swift | 106776 | S_GRS_1980_Adj_MN_Swift |
| D_NAD_1983_HARN_Adj_MN_Todd | 106777 | S_GRS_1980_Adj_MN_Todd |
| D_NAD_1983_HARN_Adj_MN_Traverse | 106778 | S_GRS_1980_Adj_MN_Traverse |
| D_NAD_1983_HARN_Adj_MN_Wabasha | 106779 | S_GRS_1980_Adj_MN_Wabasha |
| D_NAD_1983_HARN_Adj_MN_Wadena | 106780 | S_GRS_1980_Adj_MN_Wadena |
| D_NAD_1983_HARN_Adj_MN_Waseca | 106781 | S_GRS_1980_Adj_MN_Waseca |
| D_NAD_1983_HARN_Adj_MN_Watonwan | 106782 | S_GRS_1980_Adj_MN_Watonwan |
| D_NAD_1983_HARN_Adj_MN_Winona | 106783 | S_GRS_1980_Adj_MN_Winona |
| D_NAD_1983_HARN_Adj_MN_Wright | 106784 | S_GRS_1980_Adj_MN_Wright |
| D_NAD_1983_HARN_Adj_MN_Yellow_Medicine | 106785 | S_GRS_1980_Adj_MN_Yellow_Medicine |
| D_NAD_1983_MA11 | 106286 | GRS_1980 |
| D_NAD_1983_MARP00 | 106210 | GRS_1980 |
| D_NAD_1983_NSRS2007 | 6759 | GRS_1980 |
| D_NAD_1983_PA11 | 106287 | GRS_1980 |
| D_NAD_1983_PACP00 | 106209 | GRS_1980 |
| D_Nahrwan_1934 | 6744 | Clarke_1880_RGS |
| D_Nahrwan_1967 | 6270 | Clarke_1880_RGS |
| D_Naiad_2000 | 106964 | Naiad_2000_IAU_IAG |
| D_Nakhl-e_Ghanem | 6693 | WGS_1984 |
| D_Naparima_1955 | 6158 | International_1924 |
| D_Naparima_1972 | 6271 | International_1924 |
| D_NEA74_Noumea | 6644 | International_1924 |
| D_Nepal_Nagarkot | 106256 | Everest_Adjustment_1937 |
| D_Neptune_2000 | 106960 | Neptune_2000_IAU_IAG |
| D_Nereid_2000 | 106965 | Nereid_2000_IAU_IAG |
| D_New_Beijing | 1045 | Krasovsky_1940 |
| D_New_Zealand_1949 | 6272 | International_1924 |
| D_NGN | 6318 | WGS_1984 |
| D_NGO_1948 | 6273 | Bessel_Modified |
| D_Nord_de_Guerre | 6902 | Plessis_1817 |
| D_Nord_Sahara_1959 | 6307 | Clarke_1880_RGS |
| D_North_American_1927 | 6267 | Clarke_1866 |
| D_North_American_1983 | 6269 | GRS_1980 |
| D_North_American_1983_CSRS | 6140 | GRS_1980 |
| D_North_American_1983_HARN | 6152 | GRS_1980 |
| D_North_American_Michigan | 6268 | Clarke_1866_Michigan |
| D_Nouakchott_1965 | 6680 | Clarke_1880_RGS |
| D_NSWC_9Z_2 | 6276 | NWL_9D |
| D_NTF | 6275 | Clarke_1880_IGN |
| D_NWL_9D | 6025 | NWL_9D |
| D_NZGD_2000 | 6167 | GRS_1980 |
| D_Oberon_2000 | 106953 | Oberon_2000_IAU_IAG |
| D_Observatario | 6129 | Clarke_1866 |
| D_Observatorio_Meteorologico_1939 | 106245 | International_1924 |
| D_Observatorio_Meteorologico_1965 | 106274 | International_1924 |
| D_Ocotepeque_1935 | 1070 | Clarke_1866 |
| D_Old_Hawaiian | 6135 | Clarke_1866 |
| D_Old_Hawaiian_Intl_1924 | 106284 | International_1924 |
| D_Oman | 106206 | Clarke_1880_RGS |
| D_Ophelia_2000 | 106954 | Ophelia_2000_IAU_IAG |
| D_OSGB_1936 | 6277 | Airy_1830 |
| D_OSGB_1970_SN | 6278 | Airy_1830 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_OSNI_1952 | 6188 | Airy_1830 |
| D_OS_SN_1980 | 6279 | Airy_1830 |
| D_OSU_86F | 6032 | OSU_86F |
| D_OSU_91A | 6033 | OSU_91A |
| D_Padang_1884 | 6280 | Bessel_1841 |
| D_Palestine_1923 | 6281 | Clarke_1880_Benoit |
| D_Pampa_del_Castillo | 6161 | International_1924 |
| D_Pan_2000 | 106936 | Pan_2000_IAU_IAG |
| D_Panama-Colon-1911 | 1072 | Clarke_1866 |
| D_Pandora_2000 | 106937 | Pandora_2000_IAU_IAG |
| D_Papua_New_Guinea_Geodetic_Datum_1994 | 1076 | GRS_1980 |
| D_Parametrop_Zemp_1990 | 6740 | PZ_1990 |
| D_Pasiphae_2000 | 106922 | Pasiphae_2000_IAU_IAG |
| D_PDO_1993 | 6134 | Clarke_1880_RGS |
| D_Peru96 | 1067 | GRS_1980 |
| D_Petrels_1972 | 6636 | International_1924 |
| D_Philippine_Reference_System_1992 | 6683 | Clarke_1866 |
| D_Phobos_2000 | 106907 | Phobos_2000_IAU_IAG |
| D_Phoebe_2000 | 106938 | Phoebe_2000_IAU_IAG |
| D_Pico_de_Las_Nieves | 6728 | International_1924 |
| D_Pitcairn_1967 | 6729 | International_1924 |
| D_Pitcairn_2006 | 6763 | WGS_1984 |
| D_Plessis_1817 | 6027 | Plessis_1817 |
| D_Pluto_2000 | 106969 | Pluto_2000_IAU_IAG |
| D_Pohnpei | 106266 | Clarke_1866 |
| D_Point_58 | 6620 | Clarke_1880_RGS |
| D_Pointe_Geologie_Perroud_1950 | 6637 | International_1924 |
| D_Pointe_Noire | 6282 | Clarke_1880_IGN |
| D_Portia_2000 | 106955 | Portia_2000_IAU_IAG |
| D_Porto_Santo_1936 | 6615 | International_1924 |
| D_Porto_Santo_1995 | 6663 | International_1924 |
| D_POSGAR | 6172 | GRS_1980 |
| D_POSGAR_1994 | 6694 | GRS_1980 |
| D_POSGAR_1998 | 6190 | GRS_1980 |
| D_POSGAR_2007 | 1062 | GRS_1980 |
| D_Potsdam_1983 | 6746 | Bessel_1841 |
| D_Principe | 1046 | International_1924 |
| D_Prometheus_2000 | 106939 | Prometheus_2000_IAU_IAG |
| D_Proteus_2000 | 106966 | Proteus_2000_IAU_IAG |
| D_Provisional_S_American_1956 | 6248 | International_1924 |
| D_PTRA08 | 1041 | GRS_1980 |
| D_Puck_2000 | 106956 | Puck_2000_IAU_IAG |
| D_Puerto_Rico | 6139 | Clarke_1866 |
| D_Pulkovo_1942 | 6284 | Krasovsky_1940 |
| D_Pulkovo_1942_Adj_1958 | 6179 | Krasovsky_1940 |
| D_Pulkovo_1942_Adj_1983 | 6178 | Krasovsky_1940 |
| D_Pulkovo_1995 | 6200 | Krasovsky_1940 |
| D_Qatar | 6285 | International_1924 |
| D_Qatar_1948 | 6286 | Helmert_1906 |
| D_QND_1995 | 6614 | International_1924 |
| D_Qornoq_1927 | 6194 | International_1924 |
| D_Rassadiran | 6153 | International_1924 |
| D_Rauenberg_1983 | 6745 | Bessel_1841 |
| D_Red_Geodesica_de_Canarias_1995 | 1035 | GRS_1980 |
| D_REGVEN | 6189 | GRS_1980 |
| D_Reseau_Geodesique_de_la_Polynesie_Francaise | 6687 | GRS_1980 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Reseau_Geodesique_de_la_RDC_2005 | 1033 | GRS_1980 |
| D_Reseau_Geodesique_de_Mayotte_2004 | 1036 | GRS_1980 |
| D_Reseau_Geodesique_de_Nouvelle_Caledonie_1991-93 | 6749 | GRS_1980 |
| D_Reseau_Geodesique_de_St_Pierre_et_Miquelon_2006 | 1038 | GRS_1980 |
| D_Reunion_1947 | 6626 | International_1924 |
| D_Reykjavik_1900 | 6657 | Danish_1876 |
| D_RGF_1993 | 6171 | GRS_1980 |
| D_RGFG_1995 | 6624 | GRS_1980 |
| D_RGNC_1991 | 6645 | International_1924 |
| D_RGR_1992 | 6627 | GRS_1980 |
| D_Rhea_2000 | 106940 | Rhea_2000_IAU_IAG |
| D_Roma_1940 | 106275 | International_1924 |
| D_Rosalind_2000 | 106957 | Rosalind_2000_IAU_IAG |
| D_Ross_Sea_Region_Geodetic_Datum_2000 | 6764 | GRS_1980 |
| D_RRAF_1991 | 1047 | GRS_1980 |
| D_RT_1990 | 6124 | Bessel_1841 |
| D_S42_Hungary | 106257 | Krasovsky_1940 |
| D_Sainte_Anne | 6622 | International_1924 |
| D_Saint_Pierre_et_Miquelon_1950 | 6638 | Clarke_1866 |
| D_Samboja | 6125 | Bessel_1841 |
| D_Santo_DOS_1965 | 6730 | International_1924 |
| D_Sao_Braz | 106249 | International_1924 |
| D_Sao_Tome | 1044 | International_1924 |
| D_Sapper_Hill_1943 | 6292 | International_1924 |
| D_Saturn_2000 | 106925 | Saturn_2000_IAU_IAG |
| D_Schwarzeck | 6293 | Bessel_Namibia |
| D_Scoresbysund_1952 | 6195 | International_1924 |
| D_Segora | 6294 | Bessel_1841 |
| D_Selvagem_Grande_1938 | 6616 | International_1924 |
| D_Serbian_Reference_Network_1998 | 1034 | GRS_1980 |
| D_Serindung | 6295 | Bessel_1841 |
| D_SGNP_MARCARIO_SOLIS | 1066 | GRS_1980 |
| D_Sibun_Gorge_1922 | 1071 | Clarke_1858 |
| D_Sierra_Leone_1924 | 6174 | War_Office |
| D_Sierra_Leone_1960 | 106103 | Clarke_1880_RGS |
| D_Sierra_Leone_1968 | 6175 | Clarke_1880_RGS |
| D_Sinope_2000 | 106923 | Sinope_2000_IAU_IAG |
| D_SIRGAS | 6170 | GRS_1980 |
| D_SIRGAS_2000 | 6674 | GRS_1980 |
| D_SIRGAS-Chile | 1064 | GRS_1980 |
| D_SIRGAS_ES2007.8 | 1069 | GRS_1980 |
| D_SIRGAS-ROU98 | 1068 | WGS_1984 |
| D_S_JTSK | 6156 | Bessel_1841 |
| D_S_JTSK_05 | 1052 | Bessel_1841 |
| D_S_JTSK_05_Ferro | 1055 | Bessel_1841 |
| D_Slovenia_Geodetic_Datum_1996 | 6765 | GRS_1980 |
| D_Solomon_1968 | 6718 | International_1924 |
| D_South_American_1969 | 6618 | GRS_1967_Truncated |
| D_South_American_Datum_1969_96 | 1075 | GRS_1967_Truncated |
| D_South_Asia_Singapore | 106207 | Fischer_Modified |
| D_South_Yemen | 6164 | Krasovsky_1940 |
| D_Sphere | 6035 | Sphere |
| D_Sphere_ARC_INFO | 106008 | Sphere_ARC_INFO |
| D_Sphere_Clarke_1866_Authalic | 6052 | Sphere_Clarke_1866_Authalic |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Sphere_EMEP | 106276 | Sphere_EMEP |
| D_Sphere_GRS_1980_Authalic | 6047 | Sphere_GRS_1980_Authalic |
| D_Sphere_International_1924_Authalic | 6053 | Sphere_International_1924_Authalic |
| D_Sri_Lanka_Datum_1999 | 1053 | Everest_Adjustment_1937 |
| D_ST71_Belep | 6643 | International_1924 |
| D_ST84_Ile_des_Pins | 6642 | International_1924 |
| D_ST87_Ouvea | 6750 | WGS_1984 |
| D_St_George_Island | 6138 | Clarke_1866 |
| D_St_Kitts_1955 | 6605 | Clarke_1880_RGS |
| D_St_Lawrence_Island | 6136 | Clarke_1866 |
| D_St_Lucia_1955 | 6606 | Clarke_1880_RGS |
| D_Stockholm_1938 | 6308 | Bessel_1841 |
| D_St_Paul_Island | 6137 | Clarke_1866 |
| D_Struve_1860 | 6028 | Struve_1860 |
| D_St_Vincent_1945 | 6607 | Clarke_1880_RGS |
| D_Sudan | 6296 | Clarke_1880_IGN |
| D_SVY21 | 6757 | WGS_1984 |
| D_SWEREF99 | 6619 | GRS_1980 |
| D_Swiss_TRF_1995 | 6151 | GRS_1980 |
| D_Tahaa_1954 | 6629 | International_1924 |
| D_Tahiti_1952 | 6628 | International_1924 |
| D_Tahiti_1979 | 6690 | International_1924 |
| D_Tananarive_1925 | 6297 | International_1924 |
| D_Telesto_2000 | 106941 | Telesto_2000_IAU_IAG |
| D_Tern_Island_1961 | 6707 | International_1924 |
| D_Tete | 6127 | Clarke_1866 |
| D_Tethys_2000 | 106942 | Tethys_2000_IAU_IAG |
| D_Thalassa_2000 | 106967 | Thalassa_2000_IAU_IAG |
| D_Thebe_2000 | 106924 | Thebe_2000_IAU_IAG |
| D_Timbalai_1948 | 6298 | Everest_Definition_1967 |
| D_Titan_2000 | 106943 | Titan_2000_IAU_IAG |
| D_Titania_2000 | 106958 | Titania_2000_IAU_IAG |
| D_TM65 | 6299 | Airy_Modified |
| D_TM75 | 6300 | Airy_Modified |
| D_Tokyo | 6301 | Bessel_1841 |
| D_Trinidad_1903 | 6302 | Clarke_1858 |
| D_Tristan_1968 | 6734 | International_1924 |
| D_Triton_2000 | 106968 | Triton_2000_IAU_IAG |
| D_Trucial_Coast_1948 | 6303 | Helmert_1906 |
| D_Turkish_National_Reference_Frame | 1057 | GRS_1980 |
| D_TWD_1967 | 1025 | GRS_1967_Truncated |
| D_TWD_1997 | 1026 | GRS_1980 |
| D_Ukraine_2000 | 1077 | Krasovsky_1940 |
| D_Umbriel_2000 | 106959 | Umbriel_2000_IAU_IAG |
| D_Uranus_2000 | 106944 | Uranus_2000_IAU_IAG |
| D_Vanua_Levu_1915 | 6748 | Clarke_1880_Intl_Ft |
| D_Venus_1985 | 106901 | Venus_1985_IAU_IAG_COSPAR |
| D_Venus_2000 | 106902 | Venus_2000_IAU_IAG |
| D_Vientiane_1982 | 6676 | Krasovsky_1940 |
| D_Vietnam_2000 | 6756 | WGS_1984 |
| D_Viti_Levu_1912 | 6752 | Clarke_1880_Intl_Ft |
| D_Viti_Levu_1916 | 6731 | Clarke_1880_RGS |
| D_Voirol_1875 | 6304 | Clarke_1880_IGN |
| D_Voirol_1879 | 6671 | Clarke_1880_IGN |
| D_Voirol_Unifie_1960 | 6305 | Clarke_1880_RGS |
| D_Wake_Eniwetok_1960 | 6732 | Hough_1960 |

| Datum Name | WKID | Spheroid Name |
|---|---|---|
| D_Wake_Island_1952 | 6733 | International_1924 |
| D_Walbeck | 106007 | Walbeck |
| D_War_Office | 6029 | War_Office |
| D_WGS_1966 | 6760 | WGS_1966 |
| D_WGS_1972 | 6322 | WGS_1972 |
| D_WGS_1972_BE | 6324 | WGS_1972 |
| D_WGS_1984 | 6326 | WGS_1984 |
| D_WGS_1984_Major_Auxiliary_Sphere | 106283 | WGS_1984_Major_Auxiliary_Sphere |
| D_Xian_1980 | 6610 | Xian_1980 |
| D_Yacare | 6309 | International_1924 |
| D_Yemen_NGN_1996 | 6163 | WGS_1984 |
| D_Yoff | 6310 | Clarke_1880_IGN |
| D_Zanderij | 6311 | International_1924 |
| Reseau_Geodesique_des_Antilles_Francaises_2009 | 1073 | GRS_1980 |

## *Table 4: Angular units: well-known IDs and conversion values*

| Angular Unit of Measure Name | WKID | Conversion Value: Radians per Unit |
|---|---|---|
| Degree | 9102 | 0.01745329251994 |
| Gon | 9106 | 0.01570796326795 |
| Grad | 9105 | 0.01570796326795 |
| Microradian | 9109 | 0.000001 |
| Mil_6400 | 9114 | 0.00098174770425 |
| Minute | 9103 | 0.00029088820867 |
| Minute_Centesimal | 9112 | 0.00015707963268 |
| Radian | 9101 | 1.0 |
| Second | 9104 | 0.00000484813681 |
| Second_Centesimal | 9113 | 0.00000157079633 |

## *Table 5: Prime meridians: well-known IDs and longitude values*

| Prime Meridian Name | WKID | Longitude Relative to Greenwich in degrees |
|---|---|---|
| Athens | 8912 | 23.7163375 |
| Bern | 8907 | 7.43958333 |
| Bogota | 8904 | -74.08091667 |
| Brussels | 8910 | 4.367975 |
| Ferro | 8909 | -17.66666667 |
| Greenwich | 8901 | 0.0 |
| Jakarta | 8908 | 106.80771944 |
| Lisbon | 8902 | -9.13190611 |
| Madrid | 8905 | -3.68793889 |
| Oslo | 8913 | 10.72291667 |
| Paris | 8903 | 2.33722917 |
| Paris_RGS | 8914 | 2.33720833 |
| Reference_Meridian | 108900 | 0.0 |
| Rome | 8906 | 12.45233333 |
| Stockholm | 8911 | 18.05827778 |

## *Table 6: Spheroids: well-known IDs and defining parameters*

| Spheroid Name | WKID | Semimajor Axis (m) | Semiminor Axis (m) | Inverse Flattening | Eccentricity squared ($e^2$) |
|---|---|---|---|---|---|

| Spheroid Name | WKID | Semimajor Axis (m) | Semiminor Axis (m) | Inverse Flattening | Eccentricity squared ($e^2$) |
|---|---|---|---|---|---|
| Adrastea_2000_IAU_IAG | 107909 | 8200.000 | 8200.000 | 0.0 | 0.0 |
| Airy_1830 | 7001 | 6377563.396 | 6356256.909 | 0.00334085 | 0.00667054 |
| Airy_Modified | 7002 | 6377340.189 | 6356034.448 | 0.00334085 | 0.00667054 |
| Amalthea_2000_IAU_IAG | 107910 | 83500.000 | 83500.000 | 0.0 | 0.0 |
| Ananke_2000_IAU_IAG | 107911 | 10000.000 | 10000.000 | 0.0 | 0.0 |
| Ariel_2000_IAU_IAG | 107945 | 578900.000 | 578900.000 | 0.0 | 0.0 |
| Atlas_2000_IAU_IAG | 107926 | 16000.000 | 16000.000 | 0.0 | 0.0 |
| ATS_1977 | 7041 | 6378135.000 | 6356750.305 | 0.00335281 | 0.00669438 |
| Australian | 7003 | 6378160.000 | 6356774.719 | 0.00335289 | 0.00669454 |
| Belinda_2000_IAU_IAG | 107946 | 33000.000 | 33000.000 | 0.0 | 0.0 |
| Bessel_1841 | 7004 | 6377397.155 | 6356078.963 | 0.00334277 | 0.00667437 |
| Bessel_Modified | 7005 | 6377492.018 | 6356173.509 | 0.00334277 | 0.00667437 |
| Bessel_Namibia | 7006 | 6377483.865 | 6356165.383 | 0.00334277 | 0.00667437 |
| Bianca_2000_IAU_IAG | 107947 | 21000.000 | 21000.000 | 0.0 | 0.0 |
| Callisto_2000_IAU_IAG | 107912 | 2409300.000 | 2409300.000 | 0.0 | 0.0 |
| Calypso_2000_IAU_IAG | 107927 | 9500.000 | 9500.000 | 0.0 | 0.0 |
| Carme_2000_IAU_IAG | 107913 | 15000.000 | 15000.000 | 0.0 | 0.0 |
| CGCS2000 | 107038 | 6378137.000 | 6356752.314 | 0.00335281 | 0.00669438 |
| Charon_2000_IAU_IAG | 107970 | 593000.000 | 593000.000 | 0.0 | 0.0 |
| Clarke_1858 | 7007 | 6378293.645 | 6356617.988 | 0.00339835 | 0.00678515 |
| Clarke_1866 | 7008 | 6378206.400 | 6356583.800 | 0.00339008 | 0.00676866 |
| Clarke_1866_Michigan | 7009 | 6378450.047 | 6356826.620 | 0.00339008 | 0.00676866 |
| Clarke_1880 | 7034 | 6378249.138 | 6356514.959 | 0.00340755 | 0.00680348 |
| Clarke_1880_Arc | 7013 | 6378249.145 | 6356514.966 | 0.00340755 | 0.00680348 |
| Clarke_1880_Benoit | 7010 | 6378300.790 | 6356566.430 | 0.00340755 | 0.00680348 |
| Clarke_1880_IGN | 7011 | 6378249.200 | 6356515.000 | 0.00340755 | 0.00680349 |
| Clarke_1880_Intl_Ft | 7055 | 6378306.370 | 6356571.996 | 0.00340755 | 0.00680348 |
| Clarke_1880_RGS | 7012 | 6378249.145 | 6356514.870 | 0.00340756 | 0.00680351 |
| Clarke_1880_SGA | 7014 | 6378249.200 | 6356514.997 | 0.00340755 | 0.00680349 |
| Cordelia_2000_IAU_IAG | 107948 | 13000.000 | 13000.000 | 0.0 | 0.0 |
| Cressida_2000_IAU_IAG | 107949 | 31000.000 | 31000.000 | 0.0 | 0.0 |
| Danish_1876 | 7051 | 6377019.270 | 6355762.539 | 0.00333333 | 0.00665556 |
| Deimos_2000_IAU_IAG | 107906 | 6200.000 | 6200.000 | 0.0 | 0.0 |
| Desdemona_2000_IAU_IAG | 107950 | 27000.000 | 27000.000 | 0.0 | 0.0 |
| Despina_2000_IAU_IAG | 107961 | 74000.000 | 74000.000 | 0.0 | 0.0 |
| Dione_2000_IAU_IAG | 107928 | 560000.000 | 560000.000 | 0.0 | 0.0 |
| Elara_2000_IAU_IAG | 107914 | 40000.000 | 40000.000 | 0.0 | 0.0 |
| Enceladus_2000_IAU_IAG | 107929 | 249400.000 | 249400.000 | 0.0 | 0.0 |
| Epimetheus_2000_IAU_IAG | 107930 | 59500.000 | 59500.000 | 0.0 | 0.0 |
| Europa_2000_IAU_IAG | 107915 | 1562090.000 | 1562090.000 | 0.0 | 0.0 |
| Everest_1830 | 7042 | 6377299.360 | 6356098.352 | 0.00332445 | 0.00663785 |
| Everest_1830_Modified | 7018 | 6377304.063 | 6356103.039 | 0.00332445 | 0.00663785 |
| Everest_Adjustment_1937 | 7015 | 6377276.345 | 6356075.413 | 0.00332445 | 0.00663785 |
| Everest_Definition_1962 | 7044 | 6377301.243 | 6356100.230 | 0.00332445 | 0.00663785 |
| Everest_Definition_1967 | 7016 | 6377298.556 | 6356097.550 | 0.00332445 | 0.00663785 |
| Everest_Definition_1975 | 7045 | 6377299.151 | 6356098.145 | 0.00332445 | 0.00663785 |
| Everest_Modified_1969 | 7056 | 6377295.664 | 6356094.668 | 0.00332445 | 0.00663785 |
| Fischer_1960 | 107002 | 6378166.000 | 6356784.284 | 0.00335233 | 0.00669342 |
| Fischer_1968 | 107003 | 6378150.000 | 6356768.337 | 0.00335233 | 0.00669342 |
| Fischer_Modified | 107004 | 6378155.000 | 6356773.320 | 0.00335233 | 0.00669342 |
| Galatea_2000_IAU_IAG | 107962 | 79000.000 | 79000.000 | 0.0 | 0.0 |
| Ganymede_2000_IAU_IAG | 107916 | 2632345.000 | 2632345.000 | 0.0 | 0.0 |
| GEM_10C | 7031 | 6378137.000 | 6356752.314 | 0.00335281 | 0.00669438 |
| GRS_1967 | 7036 | 6378160.000 | 6356774.516 | 0.00335292 | 0.00669461 |
| GRS_1967_Truncated | 7050 | 6378160.000 | 6356774.719 | 0.00335289 | 0.00669454 |

| Spheroid Name | WKID | Semimajor Axis (m) | Semiminor Axis (m) | Inverse Flattening | Eccentricity squared ($e^2$) |
|---|---|---|---|---|---|
| GRS_1980 | 7019 | 6378137.000 | 6356752.314 | 0.00335281 | 0.00669438 |
| Helene_2000_IAU_IAG | 107931 | 16000.000 | 16000.000 | 0.0 | 0.0 |
| Helmert_1906 | 7020 | 6378200.000 | 6356818.170 | 0.00335233 | 0.00669342 |
| Himalia_2000_IAU_IAG | 107917 | 85000.000 | 85000.000 | 0.0 | 0.0 |
| Hough_1960 | 7053 | 6378270.000 | 6356794.343 | 0.00336700 | 0.00672267 |
| Hughes_1980 | 7058 | 6378273.000 | 6356889.449 | 0.00335256 | 0.00669388 |
| Hyperion_2000_IAU_IAG | 107932 | 133000.000 | 133000.000 | 0.0 | 0.0 |
| Iapetus_2000_IAU_IAG | 107933 | 718000.000 | 718000.000 | 0.0 | 0.0 |
| Indonesian | 7021 | 6378160.000 | 6356774.504 | 0.00335293 | 0.00669461 |
| International_1924 | 7022 | 6378388.000 | 6356911.946 | 0.00336700 | 0.00672267 |
| International_1967 | 7023 | 6378160.000 | 6356774.719 | 0.00335289 | 0.00669454 |
| Io_2000_IAU_IAG | 107918 | 1821460.000 | 1821460.000 | 0.0 | 0.0 |
| Janus_2000_IAU_IAG | 107934 | 888000.000 | 888000.000 | 0.0 | 0.0 |
| Juliet_2000_IAU_IAG | 107951 | 42000.000 | 42000.000 | 0.0 | 0.0 |
| Jupiter_2000_IAU_IAG | 107908 | 71492000.000 | 66854000.000 | 0.06487439 | 0.12554010 |
| Krasovsky_1940 | 7024 | 6378245.000 | 6356863.019 | 0.00335233 | 0.00669342 |
| Larissa_2000_IAU_IAG | 107963 | 104000.000 | 89000.000 | 0.14423077 | 0.26765902 |
| Leda_2000_IAU_IAG | 107919 | 5000.000 | 5000.000 | 0.0 | 0.0 |
| Lysithea_2000_IAU_IAG | 107920 | 12000.000 | 12000.000 | 0.0 | 0.0 |
| Mars_1979_IAU_IAG | 107904 | 3393400.000 | 3375730.000 | 0.00520717 | 0.01038722 |
| Mars_2000_IAU_IAG | 107905 | 3396190.000 | 3376200.000 | 0.00588601 | 0.01173737 |
| Mercury_2000_IAU_IAG | 107900 | 2439700.000 | 2439700.000 | 0.0 | 0.0 |
| Metis_2000_IAU_IAG | 107921 | 30000.000 | 20000.000 | 0.33333333 | 0.55555556 |
| Mimas_2000_IAU_IAG | 107935 | 1986300.000 | 1986300.000 | 0.0 | 0.0 |
| Miranda_2000_IAU_IAG | 107952 | 235800.000 | 235800.000 | 0.0 | 0.0 |
| Moon_2000_IAU_IAG | 107903 | 1737400.000 | 1737400.000 | 0.0 | 0.0 |
| Naiad_2000_IAU_IAG | 107964 | 29000.000 | 29000.000 | 0.0 | 0.0 |
| Neptune_2000_IAU_IAG | 107960 | 24764000.000 | 24341000.000 | 0.01708125 | 0.03387072 |
| Nereid_2000_IAU_IAG | 107965 | 170000.000 | 170000.000 | 0.0 | 0.0 |
| NWL_10D | 7026 | 6378135.000 | 6356750.520 | 0.00335278 | 0.00669432 |
| NWL_9D | 7025 | 6378145.000 | 6356759.769 | 0.00335289 | 0.00669454 |
| Oberon_2000_IAU_IAG | 107953 | 761400.000 | 761400.000 | 0.0 | 0.0 |
| Ophelia_2000_IAU_IAG | 107954 | 15000.000 | 15000.000 | 0.0 | 0.0 |
| OSU_86F | 7032 | 6378136.200 | 6356751.517 | 0.00335281 | 0.00669438 |
| OSU_91A | 7033 | 6378136.300 | 6356751.617 | 0.00335281 | 0.00669438 |
| Pan_2000_IAU_IAG | 107936 | 10000.000 | 10000.000 | 0.0 | 0.0 |
| Pandora_2000_IAU_IAG | 107937 | 41900.000 | 41900.000 | 0.0 | 0.0 |
| Pasiphae_2000_IAU_IAG | 107922 | 18000.000 | 18000.000 | 0.0 | 0.0 |
| Phobos_2000_IAU_IAG | 107907 | 11100.000 | 11100.000 | 0.0 | 0.0 |
| Phoebe_2000_IAU_IAG | 107938 | 110000.000 | 110000.000 | 0.0 | 0.0 |
| Plessis_1817 | 7027 | 6376523.000 | 6355862.933 | 0.00324002 | 0.00646954 |
| Pluto_2000_IAU_IAG | 107969 | 1195000.000 | 1195000.000 | 0.0 | 0.0 |
| Portia_2000_IAU_IAG | 107955 | 54000.000 | 54000.000 | 0.0 | 0.0 |
| Prometheus_2000_IAU_IAG | 107939 | 50100.000 | 50100.000 | 0.0 | 0.0 |
| Proteus_2000_IAU_IAG | 107966 | 208000.000 | 208000.000 | 0.0 | 0.0 |
| Puck_2000_IAU_IAG | 107956 | 77000.000 | 77000.000 | 0.0 | 0.0 |
| PZ_1990 | 7054 | 6378136.000 | 6356751.362 | 0.00335280 | 0.00669437 |
| Rhea_2000_IAU_IAG | 107940 | 764000.000 | 764000.000 | 0.0 | 0.0 |
| Rosalind_2000_IAU_IAG | 107957 | 27000.000 | 27000.000 | 0.0 | 0.0 |
| Saturn_2000_IAU_IAG | 107925 | 60268000.000 | 54364000.000 | 0.09796243 | 0.18632823 |
| S_GRS_1980_Adj_MN_Anoka | 107700 | 6378418.941 | 6357033.310 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Becker | 107701 | 6378586.581 | 6357200.388 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Beltrami_North | 107702 | 6378505.809 | 6357119.887 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Beltrami_South | 107703 | 6378544.823 | 6357158.770 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Benton | 107704 | 6378490.569 | 6357104.698 | 0.00335281 | 0.00669438 |

| Spheroid Name | WKID | Semimajor Axis (m) | Semiminor Axis (m) | Inverse Flattening | Eccentricity squared ($e^2$) |
|---|---|---|---|---|---|
| S_GRS_1980_Adj_MN_Big_Stone | 107705 | 6378470.757 | 6357084.952 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Blue_Earth | 107706 | 6378403.701 | 6357018.121 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Brown | 107707 | 6378434.181 | 6357048.499 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Carlton | 107708 | 6378454.907 | 6357069.155 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Carver | 107709 | 6378400.653 | 6357015.083 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Cass_North | 107710 | 6378567.378 | 6357181.249 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Cass_South | 107711 | 6378546.957 | 6357160.897 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Chippewa | 107712 | 6378476.853 | 6357091.028 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Chisago | 107713 | 6378411.321 | 6357025.715 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Cook_North | 107714 | 6378647.541 | 6357261.143 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Cook_South | 107715 | 6378647.541 | 6357261.143 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Cottonwood | 107716 | 6378514.953 | 6357129.000 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Crow_Wing | 107717 | 6378546.957 | 6357160.897 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Dakota | 107718 | 6378421.989 | 6357036.348 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Dodge | 107719 | 6378481.425 | 6357095.584 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Douglas | 107720 | 6378518.001 | 6357132.038 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Faribault | 107721 | 6378521.049 | 6357135.075 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Fillmore | 107722 | 6378464.661 | 6357078.877 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Freeborn | 107723 | 6378521.049 | 6357135.075 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Goodhue | 107724 | 6378434.181 | 6357048.499 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Grant | 107725 | 6378518.001 | 6357132.038 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Hennepin | 107726 | 6378418.941 | 6357033.310 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Houston | 107727 | 6378436.619 | 6357050.929 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Isanti | 107728 | 6378411.321 | 6357025.715 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Itasca_North | 107729 | 6378574.389 | 6357188.237 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Itasca_South | 107730 | 6378574.389 | 6357188.237 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Jackson | 107731 | 6378521.049 | 6357135.075 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Kanabec | 107732 | 6378472.281 | 6357086.471 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Kandiyohi | 107733 | 6378498.189 | 6357112.292 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Kittson | 107734 | 6378449.421 | 6357063.688 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Koochiching | 107735 | 6378525.621 | 6357139.632 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Lac_Qui_Parle | 107736 | 6378476.853 | 6357091.028 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Lake_of_the_Woods_North | 107737 | 6378466.185 | 6357080.395 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Lake_of_the_Woods_South | 107738 | 6378496.665 | 6357110.773 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Le_Sueur | 107739 | 6378434.181 | 6357048.499 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Lincoln | 107740 | 6378643.579 | 6357257.195 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Lyon | 107741 | 6378559.758 | 6357173.655 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Mahnomen | 107743 | 6378586.581 | 6357200.388 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Marshall | 107744 | 6378441.801 | 6357056.093 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Martin | 107745 | 6378521.049 | 6357135.075 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_McLeod | 107742 | 6378414.369 | 6357028.753 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Meeker | 107746 | 6378498.189 | 6357112.292 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Morrison | 107747 | 6378502.761 | 6357116.849 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Mower | 107748 | 6378521.049 | 6357135.075 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Murray | 107749 | 6378617.061 | 6357230.766 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Nicollet | 107750 | 6378403.701 | 6357018.121 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Nobles | 107751 | 6378624.681 | 6357238.360 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Norman | 107752 | 6378468.623 | 6357082.825 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Olmsted | 107753 | 6378481.425 | 6357095.584 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Ottertail | 107754 | 6378525.621 | 6357139.632 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Pennington | 107755 | 6378445.763 | 6357060.042 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Pine | 107756 | 6378472.281 | 6357086.471 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Pipestone | 107757 | 6378670.401 | 6357283.927 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Polk | 107758 | 6378445.763 | 6357060.042 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Pope | 107759 | 6378502.761 | 6357116.849 | 0.00335281 | 0.00669438 |

| Spheroid Name | WKID | Semimajor Axis (m) | Semiminor Axis (m) | Inverse Flattening | Eccentricity squared (e²) |
|---|---|---|---|---|---|
| S_GRS_1980_Adj_MN_Ramsey | 107760 | 6378418.941 | 6357033.310 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Red_Lake | 107761 | 6378445.763 | 6357060.042 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Redwood | 107762 | 6378438.753 | 6357053.055 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Renville | 107763 | 6378414.369 | 6357028.753 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Rice | 107764 | 6378434.181 | 6357048.499 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Rock | 107765 | 6378624.681 | 6357238.360 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Roseau | 107766 | 6378449.421 | 6357063.688 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Scott | 107770 | 6378421.989 | 6357036.348 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Sherburne | 107771 | 6378443.325 | 6357057.612 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Sibley | 107772 | 6378414.369 | 6357028.753 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Stearns | 107773 | 6378502.761 | 6357116.849 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Steele | 107774 | 6378481.425 | 6357095.584 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Stevens | 107775 | 6378502.761 | 6357116.849 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_St_Louis | 107786 | 6378523.000 | 6357138.314 | 0.00335261 | 0.00669398 |
| S_GRS_1980_Adj_MN_St_Louis_Central | 107768 | 6378605.783 | 6357219.525 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_St_Louis_North | 107767 | 6378543.909 | 6357157.859 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_St_Louis_South | 107769 | 6378540.861 | 6357154.821 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Swift | 107776 | 6378470.757 | 6357084.952 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Todd | 107777 | 6378548.481 | 6357162.416 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Traverse | 107778 | 6378463.746 | 6357077.965 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Wabasha | 107779 | 6378426.561 | 6357040.904 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Wadena | 107780 | 6378546.957 | 6357160.897 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Waseca | 107781 | 6378481.425 | 6357095.584 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Watonwan | 107782 | 6378514.953 | 6357129.000 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Winona | 107783 | 6378453.688 | 6357067.940 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Wright | 107784 | 6378443.325 | 6357057.612 | 0.00335281 | 0.00669438 |
| S_GRS_1980_Adj_MN_Yellow_Medicine | 107785 | 6378530.193 | 6357144.189 | 0.00335281 | 0.00669438 |
| Sinope_2000_IAU_IAG | 107923 | 14000.000 | 14000.000 | 0.0 | 0.0 |
| Sphere | 7035 | 6371000.000 | 6371000.000 | 0.0 | 0.0 |
| Sphere_ARC_INFO | 107008 | 6370997.000 | 6370997.000 | 0.0 | 0.0 |
| Sphere_Clarke_1866_Authalic | 7052 | 6370997.000 | 6370997.000 | 0.0 | 0.0 |
| Sphere_EMEP | 107009 | 6370000.000 | 6370000.000 | 0.0 | 0.0 |
| Sphere_GRS_1980_Authalic | 7048 | 6371007.000 | 6371007.000 | 0.0 | 0.0 |
| Sphere_International_1924_Authalic | 7057 | 6371228.000 | 6371228.000 | 0.0 | 0.0 |
| Struve_1860 | 7028 | 6378298.300 | 6356657.143 | 0.00339294 | 0.00677436 |
| Telesto_2000_IAU_IAG | 107941 | 11000.000 | 11000.000 | 0.0 | 0.0 |
| Tethys_2000_IAU_IAG | 107942 | 529800.000 | 529800.000 | 0.0 | 0.0 |
| Thalassa_2000_IAU_IAG | 107967 | 40000.000 | 40000.000 | 0.0 | 0.0 |
| Thebe_2000_IAU_IAG | 107924 | 49300.000 | 49300.000 | 0.0 | 0.0 |
| Titan_2000_IAU_IAG | 107943 | 2575000.000 | 2575000.000 | 0.0 | 0.0 |
| Titania_2000_IAU_IAG | 107958 | 788900.000 | 788900.000 | 0.0 | 0.0 |
| Triton_2000_IAU_IAG | 107968 | 1352600.000 | 1352600.000 | 0.0 | 0.0 |
| Umbriel_2000_IAU_IAG | 107959 | 584700.000 | 584700.000 | 0.0 | 0.0 |
| Uranus_2000_IAU_IAG | 107944 | 25559000.000 | 24973000.000 | 0.02292734 | 0.04532903 |
| Venus_1985_IAU_IAG_COSPAR | 107901 | 6051000.000 | 6051000.000 | 0.0 | 0.0 |
| Venus_2000_IAU_IAG | 107902 | 6051800.000 | 6051800.000 | 0.0 | 0.0 |
| Walbeck | 107007 | 6376896.000 | 6355834.847 | 0.00330273 | 0.00659455 |
| War_Office | 7029 | 6378300.000 | 6356751.689 | 0.00337838 | 0.00674534 |
| WGS_1966 | 107001 | 6378145.000 | 6356759.769 | 0.00335289 | 0.00669454 |
| WGS_1972 | 7043 | 6378135.000 | 6356750.520 | 0.00335278 | 0.00669432 |
| WGS_1984 | 7030 | 6378137.000 | 6356752.314 | 0.00335281 | 0.00669438 |
| WGS_1984_Major_Auxiliary_Sphere | 107037 | 6378137.000 | 6378137.000 | 0.0 | 0.0 |
| Xian_1980 | 7049 | 6378140.000 | 6356755.288 | 0.00335281 | 0.00669438 |

*Table 7: Vertical coordinate systems: well-known IDs and areas of use*

| VCS Name | WKID | Area of Use | Minimum Latitude | Minimum Longitude | Maximum Latitude | Maximum Longitude |
|---|---|---|---|---|---|---|
| AHD | 5711 | Australia - mainland | -39.150 | 112.910 | -10.140 | 153.620 |
| AHD_Tasmania | 5712 | Australia - Tasmania mainland onshore | -43.500 | 144.500 | -40.300 | 149.000 |
| AIOC95_Depth | 5734 | Azerbaijan - offshore and Sangachal | 37.900 | 48.660 | 42.580 | 51.730 |
| AIOC95_Height | 5797 | Azerbaijan - offshore and Sangachal | 37.900 | 48.660 | 42.580 | 51.730 |
| Alicante | 5782 | Spain - mainland onshore | 35.960 | -9.360 | 43.810 | 3.390 |
| Antalya | 5775 | Turkey - onshore | 35.820 | 25.620 | 42.140 | 44.820 |
| Auckland | 5759 | New Zealand - North Island - Auckland vcrs | -37.500 | 174.000 | -35.800 | 176.000 |
| Baltic | 5705 | Europe - FSU, Czechoslovakia - onshore | 35.150 | 12.090 | 81.900 | -169.570 |
| Baltic_1982 | 5786 | Bulgaria - onshore | 41.240 | 22.370 | 44.220 | 28.670 |
| Baltic_depth | 5612 | Europe - FSU, Czechoslovakia - onshore | 35.150 | 12.090 | 81.900 | -169.570 |
| Bandar_Abbas | 5752 | Iran - onshore | 24.950 | 44.060 | 39.800 | 63.370 |
| Belfast | 5732 | UK - Northern Ireland - onshore | 53.960 | -8.170 | 55.350 | -5.350 |
| Black_Sea | 5735 | Georgia - onshore | 41.050 | 40.000 | 43.580 | 46.710 |
| Bluff | 5760 | New Zealand - South Island - Bluff vcrs | -46.600 | 168.000 | -46.300 | 168.700 |
| Bora_Bora_SAU_2001 | 5607 | French Polynesia - Society Islands - Bora Bora | -16.650 | -152.330 | -16.420 | -151.650 |
| Cascais | 5780 | Portugal - mainland - onshore | 36.960 | -9.550 | 42.150 | -6.190 |
| Caspian | 5706 | Asia - FSU - Caspian Sea | 37.350 | 46.950 | 46.960 | 53.920 |
| Caspian_height | 5611 | Asia - FSU - Caspian Sea | 37.350 | 46.950 | 46.960 | 53.920 |
| CGVD_1928 | 5713 | Canada - CVD28 | 41.680 | -141.000 | 69.800 | -59.740 |
| Chatham_Island | 5771 | New Zealand - Chatham Island onshore | -45.000 | -178.000 | -43.000 | -175.000 |
| Constanta | 5781 | Romania - onshore | 43.620 | 20.260 | 48.260 | 29.730 |
| Danger_1950 | 5792 | St Pierre and Miquelon - onshore | 46.700 | -56.470 | 47.180 | -56.070 |
| Dansk_Normal_Nul | 5733 | Denmark - onshore | 54.510 | 8.000 | 57.800 | 15.240 |
| DHHN85 | 5784 | Germany - West Germany all states | 47.270 | 5.870 | 55.090 | 13.830 |
| DHHN92 | 5783 | Germany - onshore | 47.270 | 5.870 | 55.090 | 15.030 |
| Douglas | 5750 | Isle of Man - onshore | 54.010 | -4.830 | 54.480 | -4.250 |
| Dunedin | 5761 | New Zealand - South Island - Dunedin vcrs | -46.000 | 168.000 | -44.000 | 171.000 |
| Dunedin_Bluff_1960_height | 4458 | New Zealand - South Island - Dunedin-Bluff vcrs | -46.700 | 166.400 | -44.700 | 170.300 |
| Durres | 5777 | Albania - onshore | 39.640 | 19.220 | 42.660 | 21.050 |
| DVR90 | 5799 | Denmark - onshore | 54.510 | 8.000 | 57.800 | 15.240 |
| EGM2008_Geoid | 3855 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| EGM84_Geoid | 5798 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| EGM96_Geoid | 5773 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| EOMA_1980 | 5787 | Hungary | 45.750 | 16.110 | 48.580 | 22.890 |
| ETRS_1989 | 115701 | Europe - ETRS89 | 32.880 | -16.100 | 84.160 | 39.640 |
| EVRF_2007 | 5621 | Europe - EVRF2007 | 35.260 | -9.550 | 71.200 | 31.580 |
| EVRS_2000 | 5730 | Europe - EVRF2000 | 35.260 | -9.550 | 71.200 | 31.580 |
| Fahud_Height_Datum_1993 | 5725 | Oman - onshore | 16.600 | 51.900 | 26.400 | 59.890 |
| Fair_Isle | 5741 | UK - Fair Isle onshore | 59.450 | -1.760 | 59.600 | -1.510 |
| Fao | 5751 | Asia - Middle East -SE Iraq and SW Iran | 29.000 | 44.300 | 33.500 | 50.830 |
| Fao_1979 | 3886 | Iraq - onshore | 29.060 | 38.820 | 37.410 | 49.400 |
| Flannan_Isles | 5748 | UK - Flannan Isles onshore | 58.220 | -7.750 | 58.350 | -7.460 |
| Foula | 5743 | UK - Foula onshore | 60.070 | -2.200 | 60.190 | -1.950 |

| VCS Name | WKID | Area of Use | Minimum Latitude | Minimum Longitude | Maximum Latitude | Maximum Longitude |
|---|---|---|---|---|---|---|
| FVR09_height | 5317 | Faroe Islands - onshore | 61.340 | -7.480 | 62.410 | -6.340 |
| Genoa_height | 5214 | Italy - mainland and Sicily | 36.600 | 6.620 | 47.090 | 18.580 |
| GHA | 5778 | Austria | 46.410 | 9.530 | 49.020 | 17.170 |
| Gisborne | 5762 | New Zealand - North Island - Gisborne vcrs | -39.000 | 176.300 | -37.500 | 178.500 |
| Guadeloupe_1951 | 5795 | Guadeloupe - Grande-Terre and Basse-Terre - onshore | 15.880 | -61.850 | 16.540 | -61.160 |
| Ha_Tien_1960 | 5726 | Asia - Cambodia and Vietnam - onshore | 8.560 | 102.140 | 23.320 | 109.460 |
| Hon_Dau_1992 | 5727 | Vietnam - onshore | 8.450 | 103.800 | 23.390 | 109.600 |
| Hong_Kong_Chart_Datum | 5739 | China - Hong Kong - offshore | 22.160 | 113.890 | 22.620 | 114.570 |
| Hong_Kong_Principal_Datum | 5738 | China - Hong Kong - onshore | 22.160 | 113.890 | 22.620 | 114.570 |
| Huahine_SAU_2001 | 5605 | French Polynesia - Society Islands - Huahine | -16.850 | -151.060 | -16.670 | -150.930 |
| HVRS_1971 | 5610 | Croatia - onshore | 42.350 | 13.430 | 46.540 | 19.430 |
| IGLD_1955 | 5608 | North America - Great Lakes basin and St Lawrence Seaway | 41.000 | -93.160 | 52.210 | -54.760 |
| IGLD_1985 | 5609 | North America - Great Lakes basin and St Lawrence Seaway | 41.000 | -93.160 | 52.210 | -54.760 |
| IGN_1966 | 5601 | French Polynesia - Society Islands - Tahiti | -17.910 | -149.690 | -17.450 | -149.070 |
| IGN_1987 | 5756 | Martinique - onshore | 14.350 | -61.280 | 14.930 | -60.770 |
| IGN_1988 | 5757 | Guadeloupe - Grande-Terre and Basse-Terre - onshore | 15.880 | -61.850 | 16.540 | -61.160 |
| IGN_1988_LS | 5616 | Guadeloupe - Les Saintes - onshore | 15.800 | -61.680 | 15.930 | -61.520 |
| IGN_1988_MG | 5617 | Guadeloupe - Marie-Galante - onshore | 15.800 | -61.380 | 16.040 | -61.140 |
| IGN_1988_SB | 5619 | Guadeloupe - St Barthelemy - onshore | 17.830 | -62.920 | 17.980 | -62.730 |
| IGN_1988_SM | 5620 | Guadeloupe - St Martin - onshore | 18.020 | -63.200 | 18.170 | -62.960 |
| IGN_1989 | 5758 | Reunion - onshore | -21.400 | 55.200 | -20.800 | 55.800 |
| IGN_1992_LD | 5618 | Guadeloupe - La Desirade - onshore | 16.270 | -61.130 | 16.370 | -60.970 |
| Incheon_height | 5193 | Korea, Republic of (South Korea) - mainland | 33.900 | 125.100 | 38.640 | 129.600 |
| Japanese_Standard_Levelling_Datum_1949 | 5723 | Japan - Hokkaido, Honshu, Shikoku, Kyushu - onshore | 30.150 | 128.500 | 45.920 | 146.090 |
| KOC_Construction_Datum | 5790 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| KOC_WD_depth_ft | 5614 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| KOC_Well_Datum | 5789 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| Kuwait_PWD | 5788 | Kuwait - onshore | 28.560 | 46.570 | 30.100 | 48.450 |
| Lagos_1955 | 5796 | Nigeria - onshore | 4.150 | 2.700 | 13.900 | 14.680 |
| Lerwick | 5742 | UK - Shetland Islands onshore | 59.800 | -1.790 | 60.890 | -0.660 |
| LHN95 | 5729 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| LN_1902 | 5728 | Europe - Liechtenstein and Switzerland | 45.830 | 5.970 | 47.810 | 10.490 |
| Lyttleton | 5763 | New Zealand - South Island - Lyttleton vcrs | -45.000 | 168.200 | -41.300 | 174.000 |
| Malin_Head | 5731 | Europe - Ireland (Republic and Ulster) - onshore | 51.400 | -10.560 | 55.430 | -5.350 |
| Maputo | 5722 | Mozambique - onshore | -26.880 | 30.230 | -10.400 | 40.900 |
| Martinique_1955 | 5794 | Martinique - onshore | 14.350 | -61.280 | 14.930 | -60.770 |
| Maupiti_SAU_2001 | 5604 | French Polynesia - Society Islands - Maupiti | -16.520 | -152.330 | -16.330 | -152.160 |
| Mayotte_1950 | 5793 | Mayotte - onshore | -13.000 | 44.970 | -12.600 | 45.320 |
| Moorea_SAU_1981 | 5602 | French Polynesia - Society Islands - | -17.610 | -149.960 | -17.450 | -149.690 |

| VCS Name | WKID | Area of Use | Minimum Latitude | Minimum Longitude | Maximum Latitude | Maximum Longitude |
|---|---|---|---|---|---|---|
| | | Moorea | | | | |
| Moturiki | 5764 | New Zealand - North Island - Moturiki vcrs | -40.200 | 174.200 | -37.500 | 177.400 |
| MSL_Depth | 5715 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| MSL_Height | 5714 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| N2000_height | 3900 | Finland - onshore | 59.760 | 19.410 | 70.090 | 31.580 |
| N60 | 5717 | Finland - onshore | 59.760 | 19.410 | 70.090 | 31.580 |
| NAD_1983 | 115702 | North America - NAD83 | 14.930 | 167.650 | 86.450 | -47.740 |
| NAP | 5709 | Netherlands - onshore | 50.750 | 3.210 | 53.710 | 7.210 |
| Napier | 5765 | New Zealand - North Island - Hawkes Bay mc Napier vcrs | -40.600 | 175.900 | -38.900 | 178.100 |
| NAVD_1988 | 5703 | USA - CONUS and east Alaska - onshore | 24.410 | -152.000 | 70.620 | -66.920 |
| Nelson | 5766 | New Zealand - South Island - Nelson vcrs | -42.300 | 171.500 | -40.500 | 173.600 |
| Newlyn | 5701 | UK - Great Britain mainland onshore | 49.910 | -7.080 | 58.710 | 1.830 |
| Newlyn_Orkney_Isles | 5740 | UK - Orkney Islands onshore | 58.620 | -3.530 | 59.450 | -2.230 |
| NGC_1948 | 5791 | France - Corsica onshore | 41.310 | 8.500 | 43.060 | 9.630 |
| NGF_IGN69 | 5720 | France - mainland onshore | 42.330 | -4.870 | 51.140 | 8.230 |
| NGF_IGN78 | 5721 | France - Corsica onshore | 41.310 | 8.500 | 43.060 | 9.630 |
| NGF_Lallemand | 5719 | France - mainland onshore | 42.330 | -4.870 | 51.140 | 8.230 |
| NGG_1977 | 5755 | French Guiana - onshore | 2.110 | -54.600 | 5.810 | -51.620 |
| NG_L | 5774 | Luxembourg | 49.450 | 5.730 | 50.180 | 6.520 |
| NGNC | 5753 | New Caledonia - Grande Terre | -22.500 | 163.900 | -20.000 | 167.100 |
| NGPF | 5600 | French Polynesia - Society Islands - main islands | -17.910 | -152.330 | -16.420 | -149.070 |
| NGVD_1929 | 5702 | USA - CONUS - onshore | 24.410 | -124.790 | 49.380 | -66.920 |
| NN54 | 5776 | Norway - onshore | 57.940 | 4.690 | 71.200 | 31.220 |
| North_Rona | 5745 | UK - North Rona onshore | 59.070 | -5.920 | 59.190 | -5.730 |
| NVN99 | 5779 | Slovenia - onshore | 45.430 | 13.380 | 46.880 | 16.610 |
| NZVD2009_height | 4440 | New Zealand | -55.950 | 157.410 | -22.740 | -170.890 |
| One_Tree_Point | 5767 | New Zealand - North Island - One Tree vcrs | -36.500 | 172.500 | -34.000 | 175.000 |
| Oostende | 5710 | Belgium - onshore | 49.510 | 2.510 | 51.500 | 6.400 |
| PDO_Height_Datum_1993 | 5724 | Oman - onshore | 16.600 | 51.900 | 26.400 | 59.890 |
| Piraeus | 5716 | Greece - onshore | 34.880 | 19.580 | 41.750 | 28.300 |
| Poolbeg | 5754 | Europe - Ireland (Republic and Ulster) - onshore | 51.400 | -10.560 | 55.430 | -5.350 |
| Raiatea_SAU_2001 | 5603 | French Polynesia - Society Islands - Raiatea | -16.940 | -151.570 | -16.690 | -151.410 |
| RH1900 | 5615 | Sweden - onshore | 55.290 | 10.940 | 69.060 | 24.170 |
| RH2000 | 5613 | Sweden - onshore | 55.290 | 10.940 | 69.060 | 24.170 |
| RH70 | 5718 | Sweden - onshore | 55.290 | 10.940 | 69.060 | 24.170 |
| SLVD_height | 5237 | Sri Lanka - onshore | 5.850 | 79.600 | 9.920 | 81.950 |
| SNN76 | 5785 | Germany - East Germany all states | 50.200 | 9.920 | 54.730 | 15.030 |
| Stewart_Island | 5772 | New Zealand - Stewart Island | -47.400 | 167.300 | -46.670 | 168.450 |
| St_Kilda | 5747 | UK - St. Kilda onshore | 57.750 | -8.730 | 57.920 | -8.410 |
| St_Marys | 5749 | UK - Scilly Isles onshore | 49.810 | -6.490 | 50.040 | -6.160 |
| Stornoway | 5746 | UK - Outer Hebrides onshore | 56.890 | -7.650 | 58.560 | -6.050 |
| Sule_Skerry | 5744 | UK - Sule Skerry onshore | 59.050 | -4.490 | 59.130 | -4.310 |
| Tahaa_SAU_2001 | 5606 | French Polynesia - Society Islands - Tahaa | -16.690 | -151.500 | -16.550 | -151.340 |
| Taranaki | 5769 | New Zealand - North Island - Taranaki vcrs | -40.000 | 173.700 | -38.500 | 175.000 |
| Tararu | 5768 | New Zealand - North Island - | -37.200 | 175.400 | -36.900 | 176.000 |

| VCS Name | WKID | Area of Use | Minimum Latitude | Minimum Longitude | Maximum Latitude | Maximum Longitude |
|---|---|---|---|---|---|---|
| | | Tararu vcrs | | | | |
| Trieste_height | 5195 | Europe - former Yugoslavia onshore | 40.860 | 13.380 | 46.880 | 23.030 |
| Wellington | 5770 | New Zealand - North Island - Wellington vcrs | -41.800 | 176.300 | -40.000 | 178.500 |
| WGS_1984 | 115700 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| WGS_1984_Geoid | 105700 | World | -90.000 | -180.000 | 90.000 | 180.000 |
| Yellow_Sea_1956 | 5736 | China - onshore | 18.040 | 73.660 | 53.590 | 134.850 |
| Yellow_Sea_1985 | 5737 | China - onshore | 18.040 | 73.660 | 53.590 | 134.850 |

*Table 8: Vertical coordinate systems: gravity-related or ellipsoidal-based and directions*

| VCS Name | WKID | Model | Positive Direction |
|---|---|---|---|
| AHD | 5711 | Gravity-related | Positive up |
| AHD_Tasmania | 5712 | Gravity-related | Positive up |
| AIOC95_Depth | 5734 | Gravity-related | Positive down |
| AIOC95_Height | 5797 | Gravity-related | Positive up |
| Alicante | 5782 | Gravity-related | Positive up |
| Antalya | 5775 | Gravity-related | Positive up |
| Auckland | 5759 | Gravity-related | Positive up |
| Baltic | 5705 | Gravity-related | Positive up |
| Baltic_1982 | 5786 | Gravity-related | Positive up |
| Baltic_depth | 5612 | Gravity-related | Positive down |
| Bandar_Abbas | 5752 | Gravity-related | Positive up |
| Belfast | 5732 | Gravity-related | Positive up |
| Black_Sea | 5735 | Gravity-related | Positive up |
| Bluff | 5760 | Gravity-related | Positive up |
| Bora_Bora_SAU_2001 | 5607 | Gravity-related | Positive up |
| Cascais | 5780 | Gravity-related | Positive up |
| Caspian | 5706 | Gravity-related | Positive down |
| Caspian_height | 5611 | Gravity-related | Positive up |
| CGVD_1928 | 5713 | Gravity-related | Positive up |
| Chatham_Island | 5771 | Gravity-related | Positive up |
| Constanta | 5781 | Gravity-related | Positive up |
| Danger_1950 | 5792 | Gravity-related | Positive up |
| Dansk_Normal_Nul | 5733 | Gravity-related | Positive up |
| DHHN85 | 5784 | Gravity-related | Positive up |
| DHHN92 | 5783 | Gravity-related | Positive up |
| Douglas | 5750 | Gravity-related | Positive up |
| Dunedin | 5761 | Gravity-related | Positive up |
| Dunedin_Bluff_1960_height | 4458 | Gravity-related | Positive up |
| Durres | 5777 | Gravity-related | Positive up |
| DVR90 | 5799 | Gravity-related | Positive up |
| EGM2008_Geoid | 3855 | Gravity-related | Positive up |
| EGM84_Geoid | 5798 | Gravity-related | Positive up |
| EGM96_Geoid | 5773 | Gravity-related | Positive up |
| EOMA_1980 | 5787 | Gravity-related | Positive up |
| ETRS_1989 | 115701 | Ellipsoidal | Positive up |
| EVRF_2007 | 5621 | Gravity-related | Positive up |
| EVRS_2000 | 5730 | Gravity-related | Positive up |
| Fahud_Height_Datum_1993 | 5725 | Gravity-related | Positive up |
| Fair_Isle | 5741 | Gravity-related | Positive up |
| Fao | 5751 | Gravity-related | Positive up |
| Fao_1979 | 3886 | Gravity-related | Positive up |
| Flannan_Isles | 5748 | Gravity-related | Positive up |

| VCS Name | WKID | Model | Positive Direction |
|---|---|---|---|
| Foula | 5743 | Gravity-related | Positive up |
| FVR09_height | 5317 | Gravity-related | Positive up |
| Genoa_height | 5214 | Gravity-related | Positive up |
| GHA | 5778 | Gravity-related | Positive up |
| Gisborne | 5762 | Gravity-related | Positive up |
| Guadeloupe_1951 | 5795 | Gravity-related | Positive up |
| Ha_Tien_1960 | 5726 | Gravity-related | Positive up |
| Hon_Dau_1992 | 5727 | Gravity-related | Positive up |
| Hong_Kong_Chart_Datum | 5739 | Gravity-related | Positive down |
| Hong_Kong_Principal_Datum | 5738 | Gravity-related | Positive up |
| Huahine_SAU_2001 | 5605 | Gravity-related | Positive up |
| HVRS_1971 | 5610 | Gravity-related | Positive up |
| IGLD_1955 | 5608 | Gravity-related | Positive up |
| IGLD_1985 | 5609 | Gravity-related | Positive up |
| IGN_1966 | 5601 | Gravity-related | Positive up |
| IGN_1987 | 5756 | Gravity-related | Positive up |
| IGN_1988 | 5757 | Gravity-related | Positive up |
| IGN_1988_LS | 5616 | Gravity-related | Positive up |
| IGN_1988_MG | 5617 | Gravity-related | Positive up |
| IGN_1988_SB | 5619 | Gravity-related | Positive up |
| IGN_1988_SM | 5620 | Gravity-related | Positive up |
| IGN_1989 | 5758 | Gravity-related | Positive up |
| IGN_1992_LD | 5618 | Gravity-related | Positive up |
| Incheon_height | 5193 | Gravity-related | Positive up |
| Japanese_Standard_Levelling_Datum_1949 | 5723 | Gravity-related | Positive up |
| KOC_Construction_Datum | 5790 | Gravity-related | Positive up |
| KOC_WD_depth_ft | 5614 | Gravity-related | Positive down |
| KOC_Well_Datum | 5789 | Gravity-related | Positive down |
| Kuwait_PWD | 5788 | Gravity-related | Positive up |
| Lagos_1955 | 5796 | Gravity-related | Positive up |
| Lerwick | 5742 | Gravity-related | Positive up |
| LHN95 | 5729 | Gravity-related | Positive up |
| LN_1902 | 5728 | Gravity-related | Positive up |
| Lyttleton | 5763 | Gravity-related | Positive up |
| Malin_Head | 5731 | Gravity-related | Positive up |
| Maputo | 5722 | Gravity-related | Positive up |
| Martinique_1955 | 5794 | Gravity-related | Positive up |
| Maupiti_SAU_2001 | 5604 | Gravity-related | Positive up |
| Mayotte_1950 | 5793 | Gravity-related | Positive up |
| Moorea_SAU_1981 | 5602 | Gravity-related | Positive up |
| Moturiki | 5764 | Gravity-related | Positive up |
| MSL_Depth | 5715 | Gravity-related | Positive down |
| MSL_Height | 5714 | Gravity-related | Positive up |
| N2000_height | 3900 | Gravity-related | Positive up |
| N60 | 5717 | Gravity-related | Positive up |
| NAD_1983 | 115702 | Ellipsoidal | Positive up |
| NAP | 5709 | Gravity-related | Positive up |
| Napier | 5765 | Gravity-related | Positive up |
| NAVD_1988 | 5703 | Gravity-related | Positive up |
| Nelson | 5766 | Gravity-related | Positive up |
| Newlyn | 5701 | Gravity-related | Positive up |
| Newlyn_Orkney_Isles | 5740 | Gravity-related | Positive up |
| NGC_1948 | 5791 | Gravity-related | Positive up |
| NGF_IGN69 | 5720 | Gravity-related | Positive up |
| NGF_IGN78 | 5721 | Gravity-related | Positive up |
| NGF_Lallemand | 5719 | Gravity-related | Positive up |

| VCS Name | WKID | Model | Positive Direction |
|---|---|---|---|
| NGG_1977 | 5755 | Gravity-related | Positive up |
| NG_L | 5774 | Gravity-related | Positive up |
| NGNC | 5753 | Gravity-related | Positive up |
| NGPF | 5600 | Gravity-related | Positive up |
| NGVD_1929 | 5702 | Gravity-related | Positive up |
| NN54 | 5776 | Gravity-related | Positive up |
| North_Rona | 5745 | Gravity-related | Positive up |
| NVN99 | 5779 | Gravity-related | Positive up |
| NZVD2009_height | 4440 | Gravity-related | Positive up |
| One_Tree_Point | 5767 | Gravity-related | Positive up |
| Oostende | 5710 | Gravity-related | Positive up |
| PDO_Height_Datum_1993 | 5724 | Gravity-related | Positive up |
| Piraeus | 5716 | Gravity-related | Positive up |
| Poolbeg | 5754 | Gravity-related | Positive up |
| Raiatea_SAU_2001 | 5603 | Gravity-related | Positive up |
| RH1900 | 5615 | Gravity-related | Positive up |
| RH2000 | 5613 | Gravity-related | Positive up |
| RH70 | 5718 | Gravity-related | Positive up |
| SLVD_height | 5237 | Gravity-related | Positive up |
| SNN76 | 5785 | Gravity-related | Positive up |
| Stewart_Island | 5772 | Gravity-related | Positive up |
| St_Kilda | 5747 | Gravity-related | Positive up |
| St_Marys | 5749 | Gravity-related | Positive up |
| Stornoway | 5746 | Gravity-related | Positive up |
| Sule_Skerry | 5744 | Gravity-related | Positive up |
| Tahaa_SAU_2001 | 5606 | Gravity-related | Positive up |
| Taranaki | 5769 | Gravity-related | Positive up |
| Tararu | 5768 | Gravity-related | Positive up |
| Trieste_height | 5195 | Gravity-related | Positive up |
| Wellington | 5770 | Gravity-related | Positive up |
| WGS_1984 | 115700 | Ellipsoidal | Positive up |
| WGS_1984_Geoid | 105700 | Gravity-related | Positive up |
| Yellow_Sea_1956 | 5736 | Gravity-related | Positive up |
| Yellow_Sea_1985 | 5737 | Gravity-related | Positive up |

*Table 9: Vertical datums: well-known IDs*

| Vertical Datum Name | WKID |
|---|---|
| AIOC_1995 | 5133 |
| Alicante | 5180 |
| Antalya | 5173 |
| Auckland | 5157 |
| Australian_Height_Datum | 5111 |
| Australian_Height_Datum_Tasmania | 5112 |
| Baltic_1980 | 5185 |
| Baltic_1982 | 5184 |
| Baltic_Sea | 5105 |
| Bandar_Abbas | 5150 |
| Belfast | 5131 |
| Black_Sea | 5134 |
| Bluff | 5158 |
| Bora_Bora_SAU_2001 | 5202 |
| Canadian_Geodetic_Vertical_Datum_of_1928 | 5114 |
| Cascais | 5178 |

| Vertical Datum Name | WKID |
|---|---|
| Caspian_Sea | 5106 |
| Chatham_Island | 5169 |
| Constanta | 5179 |
| Croatian_Vertical_Reference_System_1971 | 5207 |
| Danger_1950 | 5190 |
| Dansk_Normal_Nul | 5132 |
| Dansk_Vertical_Reference_1990 | 5206 |
| Deutches_Haupthohennetz_1985 | 5182 |
| Deutches_Haupthohennetz_1992 | 5181 |
| Douglas | 5148 |
| Dunedin | 5159 |
| Dunedin_Bluff_1960 | 1040 |
| Durres | 5175 |
| EGM2008_Geoid | 1027 |
| EGM84_Geoid | 5203 |
| EGM96_Geoid | 5171 |
| European_Vertical_Reference_Frame_2000 | 5129 |
| European_Vertical_Reference_Frame_2007 | 5215 |
| Fahud_Height_Datum | 5124 |
| Fair_Isle | 5139 |
| Fao | 5149 |
| Fao_1979 | 1028 |
| Faroe_Islands_Vertical_Reference_2009 | 1059 |
| Flannan_Isles | 5146 |
| Foula | 5141 |
| Gebrauchshohen_Adria | 5176 |
| Genoa | 1051 |
| Gisborne | 5160 |
| Guadeloupe_1951 | 5193 |
| Ha_Tien_1960 | 5125 |
| Helsinki_1960 | 5116 |
| Hon_Dau_1992 | 5126 |
| Hong_Kong_Chart_Datum | 5136 |
| Hong_Kong_Principal_Datum | 5135 |
| Huahine_SAU_2001 | 5200 |
| IGN_1966 | 5196 |
| IGN_1987 | 5154 |
| IGN_1988 | 5155 |
| IGN_1988_LS | 5210 |
| IGN_1988_MG | 5211 |
| IGN_1988_SB | 5213 |
| IGN_1988_SM | 5214 |
| IGN_1989 | 5156 |
| IGN_1992_LD | 5212 |
| Incheon | 1049 |
| International_Great_Lakes_Datum_1955 | 5204 |
| International_Great_Lakes_Datum_1985 | 5205 |
| Japanese_Standard_Levelling_Datum_1949 | 5122 |
| KOC_Construction_Datum | 5188 |
| KOC_Well_Datum | 5187 |
| Kuwait_PWD | 5186 |
| Lagos_1955 | 5194 |
| Landeshohennetz_1995 | 5128 |
| Landesnivellement_1902 | 5127 |
| Lerwick | 5140 |
| Lyttleton | 5161 |

| Vertical Datum Name | WKID |
|---|---|
| Malin_Head | 5130 |
| Maputo | 5121 |
| Martinique_1955 | 5192 |
| Maupiti_SAU_2001 | 5199 |
| Mayotte_1950 | 5191 |
| Mean_Sea_Level | 5100 |
| Moorea_SAU_1981 | 5197 |
| Moturiki | 5162 |
| N2000 | 1030 |
| Napier | 5163 |
| National_Geodetic_Vertical_Datum_1929 | 5102 |
| National_Vertical_Network_1999 | 5177 |
| Nelson | 5164 |
| New_Zealand_Vertical_Datum_2009 | 1039 |
| Nivellement_General_de_la_Corse_1948 | 5189 |
| Nivellement_General_de_la_France_IGN69 | 5119 |
| Nivellement_General_de_la_France_IGN78 | 5120 |
| Nivellement_General_de_la_France_Lallemand | 5118 |
| Nivellement_General_de_Nouvelle_Caledonie | 5151 |
| Nivellement_General_de_Polynesie_Francaise | 5195 |
| Nivellement_General_du_Luxembourg | 5172 |
| Nivellement_General_Guyanais_1977 | 5153 |
| Normaal_Amsterdams_Peil | 5109 |
| North_American_Vertical_Datum_1988 | 5103 |
| North_Rona | 5143 |
| Norway_Normal_Nul_1954 | 5174 |
| One_Tree_Point | 5165 |
| Oostende | 5110 |
| Ordnance_Datum_Newlyn | 5101 |
| Ordnance_Datum_Newlyn_Orkney_Isles | 5138 |
| PDO_Height_Datum_1993 | 5123 |
| Piraeus_Harbour_1986 | 5115 |
| Poolbeg | 5152 |
| Raiatea_SAU_2001 | 5198 |
| Rikets_Hojdsystem_1900 | 5209 |
| Rikets_Hojdsystem_1970 | 5117 |
| Rikets_Hojdsystem_2000 | 5208 |
| Sea_Level | 5113 |
| SNN76 | 5183 |
| Sri_Lanka_Vertical_Datum | 1054 |
| Stewart_Island | 5170 |
| St_Kilda | 5145 |
| St_Marys | 5147 |
| Stornoway | 5144 |
| Sule_Skerry | 5142 |
| Tahaa_SAU_2001 | 5201 |
| Taranaki | 5167 |
| Tararu | 5166 |
| Trieste | 1050 |
| Wellington | 5168 |
| WGS_1984_Geoid | 105100 |
| Yellow_Sea_1956 | 5104 |
| Yellow_Sea_1985 | 5137 |