Geographic and Vertical Coordinate System Tables

ArcGIS Maps SDKs for Native Apps Version 200.4

Note: Some numbers have been rounded for display. Area of use values are in degrees based upon WGS 1984.

Contents

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
1_Ceres_2015	104972	Body	-90.000	-180.000	90.000	180.000
4_Vesta_2015	104973	Body	-90.000	-180.000	90.000	180.000
GCS_Abidjan_1987	4143	Cote d'Ivoire (Ivory Coast)	1.020	-8.610	10.740	-2.480
AbInvA96_2020-IRF	9384	UK - Aberdeen to Inverness	57.100	-4.310	57.710	-2.100
GCS_Accra	4168	Ghana	1.400	-3.790	11.160	2.100
GCS_Aden_1925	6881	Yemen - South Yemen - mainland	12.540	43.370	19.000	53.140
GCS_Adindan	4201	Africa - Eritrea, Ethiopia, South Sudan and Sudan	3.400	21.820	22.240	47.990
GCS_Adrastea_2000	104909	Body	-90.000	-180.00	90.000	180.00
Aegaeon_2015	104878	Body	-90.000	-180.000	90.000	180.000
GCS_Afgooye	4205	Somalia - onshore	-1.710	40.980	12.030	51.470
GCS_Agadez	4206	Niger	11.690	0.160	23.530	16.000
GCS_Ain_el_Abd_1970	4204	Asia - Middle East - Bahrain, Kuwait and Saudi Arabia	16.370	34.510	32.160	55.670
GCS_Alaskan_Islands	37260	USA - Alaska	51.300	172.420	71.400	-129.99
GCS_Albanian_1987	4191	Albania - onshore	39.640	19.220	42.670	21.060
GCS_Amalthea_2000	104910	Body	-90.000	-180.00	90.000	180.00
GCS_American_Samoa_1962	4169	American Samoa - 2 main island groups	-14.430	-170.88	-14.110	-169.38
AbInvA96_2020-IRF	9384	UK - Aberdeen to Inverness	57.100	-4.300	57.700	-2.100

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Amersfoort	4289	Netherlands - onshore	50.750	3.200	53.700	7.220
GCS_Ammassalik_1958	4196	Greenland - Ammassalik area	65.520	-38.860	65.910	-36.810
GCS_Ananke_2000	104911	Body	-90.000	-180.00	90.000	180.00
GCS_Anguilla_1957	4600	Anguilla - onshore	18.110	-63.220	18.330	-62.920
GCS_Anna_1_1965	4708	Cocos (Keeling) Islands - onshore	-12.270	96.760	-11.760	96.990
Anthe_2015	104879	Body	-90.000	-180.000	90.000	180.000
GCS_Antigua_1943	4601	Antigua - onshore	16.940	-61.950	17.220	-61.610
GCS_Aratu	4208	Brazil - Aratu	-35.710	-53.380	4.260	-26.000
GCS_Arc_1950	4209	Africa - Botswana, Malawi, Zambia, Zimbabwe	-26.880	19.990	-8.190	35.930
GCS_Arc_1960	4210	Africa – Burundi, Kenya, Rwanda, Tanzania and Uganda	-11.750	28.850	4.630	41.910
GCS_Ariel_2000	104945	Body	-90.000	-180.00	90.000	180.00
GCS_Ascension_Island_1958	4712	St Helena - Ascension Island	-8.030	-14.460	-7.830	-14.240
GCS_Astro_1952	4711	Japan - Minamitori-shima (Marcus Island) - onshore	24.220	153.91	24.350	154.05
GCS_ATF_Paris	4901	France - mainland onshore	42.330	-4.870	51.140	8.230
GCS_Atlas_2000	104926	Body	-90.000	-180.00	90.000	180.00
Atlas_2015	104976	Body	-90.000	-180.000	90.000	180.000
ATRF2014	9309	Australia - GDA	-60.550	93.410	-8.470	173.340
GCS_ATS_1977	4122	Canada - Maritime Provinces	43.410	-69.050	48.070	-59.730
GCS_Australian_1966	4202	Australasia - Australia and PNG - AGD66	-47.200	109.23	-1.300	163.20
GCS_Australian_1984	4203	Australia - AGD84	-38.530	109.230	-9.370	153.610
GCS_Australian_Antarctic_1998	4176	Antarctica - Australian sector	-90.000	45.000	-60.000	160.00
GCS_Ayabelle	4713	Djibouti	10.940	41.750	12.720	44.150
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	39.770	-31.020
GCS_Azores_Oriental_1940	4184	Portugal - Azores E - onshore	36.870	-25.920	37.960	-24.720
GCS_Azores_Oriental_1995	4664	Portugal - Azores E - onshore	36.870	-25.920	37.960	-24.720
GCS_Bab_South	104112	Palau	1.640	129.48	11.450	136.98
GCS_Barbados_1938	4212	Barbados - onshore	13.000	-59.710	13.390	-59.370
GCS_Batavia	4211	Indonesia - Java, Java Sea and western Sumatra	-8.910	95.160	5.970	117.010
GCS_Batavia_Jakarta	4813	Indonesia - Bali, Java and western Sumatra onshore	-8.910	95.160	5.970	115.770
GCS_Beacon_E_1945	4709	Japan - Iwo Jima	24.670	141.20	24.890	141.42
GCS_Beduaram	4213	Niger - southeast	12.800	7.810	16.700	14.90

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Beijing_1954	4214	China	16.700	73.620	53.560	134.77
GCS_Bekaa_Valley_1920	6882	Lebanon - onshore	33.060	35.040	34.650	36.63
GCS_Belge_1950	4215	Belgium - onshore	49.500	2.500	51.510	6.400
GCS_Belge_1950_Brussels	4809	Belgium - onshore	49.500	2.500	51.510	6.400
GCS_Belge_1972	4313	Belgium - onshore	49.500	2.500	51.510	6.400
GCS_Belinda_2000	104946	Body	-90.000	-180.00	90.000	180.00
GCS_Bellevue_IGN	4714	Vanuatu - southern islands	-20.310	168.09	-17.370	169.95
GCS_Bermuda_1957	4216	Bermuda - onshore	32.210	-64.890	32.430	-64.610
GCS_Bermuda_2000	4762	Bermuda	28.910	-68.830	35.730	-60.700
GCS_Bern_1898_Bern	4801	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
GCS_Bern_1938	4306	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
BGS2005	7798	Bulgaria	41.240	22.360	44.230	31.350
BH_ETRS89	10328	Bosnia and Herzegovina	42.560	15.740	45.270	19.620
GCS_Bianca_2000	104947	Body	-90.000	-180.00	90.000	180.00
GCS_Bioko	6883	Equatorial Guinea - Bioko	3.140	8.370	3.820	9.020
GCS_Bissau	4165	Guinea-Bissau - onshore	10.870	-16.770	12.690	-13.640
GCS_Bogota	4218	Colombia - mainland and offshore Caribbean	-4.230	-79.100	13.680	-66.870
GCS_Bogota_Bogota	4802	Colombia - mainland	-4.230	-79.100	12.520	-66.870
GCS_Bukit_Rimpah	4219	Indonesia - Banga & Belitung Islands	-3.300	105.07	-1.440	108.35
GCS_Cadastre_1997	4475	Mayotte - onshore	-13.050	44.980	-12.610	45.350
California_SRS_Epoch_2017.50_(NAD 83)	104024	USA - California and borders of NV, AZ, OR and MX	32.250	-124.450	42.530	-113.600
GCS_Callisto_2000	104912	Body	-90.000	-180.00	90.000	180.00
Callisto_2015	104873	Body	-90.000	-180.000	90.000	180.000
GCS_Calypso_2000	104927	Body	-90.000	-180.00	90.000	180.00
Calypso_2015	104977	Body	-90.000	-180.000	90.000	180.000
GCS_Camacupa	4220	Angola - Angola proper	-18.020	8.200	-5.820	24.090
Camacupa_2015	8694	Angola	-18.020	8.200	-4.380	24.090
GCS_Camp_Area	4715	Antarctica - Camp McMurdo area	-77.940	165.73	-77.170	167.43
GCS_Campo_Inchauspe	4221	Argentina - mainland onshore and offshore Tierra del Fuego	-54.930	-73.590	-21.780	-53.650
GCS_Canton_1966	4716	Kiribati - Phoenix Islands	-4.760	-174.60	-2.680	-170.66
GCS_Cape	4222	Africa - Botswana, Eswatini, Lesotho and South Africa	-34.880	16.450	-17.780	32.950
GCS_Cape_Canaveral	4717	North America - Bahamas and USA - Florida - onshore	20.860	-82.330	30.830	-72.680
GCS_Carme_2000	104913	Body	-90.000	-180.00	90.000	180.00
GCS_Carthage	4223	Tunisia	30.230	7.490	38.410	13.670
GCS_Carthage_Grad	37225	Tunisia	30.230	7.490	38.410	13.670
GCS_Carthage_Paris	4816	Tunisia - onshore	30.230	7.490	37.400	11.590
GCS_CGRS_1993	6311	Cyprus - onshore	34.590	32.200	35.740	34.650

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_CH1903	4149	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
GCS_CH1903+	4150	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
GCS_Charon_2000	104970	Body	-90.000	-180.00	90.000	180.00
Charon_2015	104999	Body	-90.000	-180.000	90.000	180.000
GCS_Chatham_Island_1971	4672	New Zealand - Chatham Islands group	-44.640	-177.250	-43.300	-175.540
GCS_Chatham_Islands_1979	4673	New Zealand - Chatham Islands group	-44.640	-177.250	-43.300	-175.540
GCS_China_Geodetic_Coordinate_System_2000	4490	China	16.700	73.620	53.560	134.770
GCS_Chos_Malal_1914	4160	Argentina – Mendoza and Neuquen	-43.410	-72.140	-31.910	-65.860
GCS_Chua	4224	South America - Brazil - south of 18°S and west of 54°W + Distrito Federal; N Paraguay	-31.910	-62.570	-15.370	-47.100
GCS_CIGD11	6135	Cayman Islands	17.580	-83.600	20.680	-78.720
GCS_Clarke_1866	4008	Not specified	-90.000	-180.00	90.000	180.00
CNH22-IRF	10191	UK - Crewe to Holyhead	53.020	-4.710	53.460	-2.280
GCS_Combani_1950	4632	Mayotte - onshore	-13.050	44.980	-12.610	45.350
GCS_Conakry_1905	4315	Guinea - onshore	7.190	-15.130	12.680	-7.650
GCS_Cordelia_2000	104948	Body	-90.000	-180.00	90.000	180.00
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	-14.990	-38.820
GCS_Cote_d_Ivoire	4226	Cote d'Ivoire (Ivory Coast)	1.020	-8.610	10.740	-2.480
COV23-IRF	10468	UK - Coventry	52.300	-1.850	52.500	-1.300
GCS_CR05	5365	Costa Rica	2.150	-90.450	11.770	-81.430
CR-SIRGAS	8907	Costa Rica	2.150	-90.450	11.770	-81.430
GCS_Cressida_2000	104949	Body	-90.000	-180.00	90.000	180.00
GCS_CSG_1967	4623	French Guiana - coastal area	3.430	-54.450	5.810	-51.610
CWS13-IRF	10196	UK - Chester to Shrewsbury	52.500	-3.160	53.260	-2.650
GCS_D48	104131	Slovenia	45.420	13.380	46.880	16.610
GCS_Dabola_1981	4155	Guinea - onshore	7.190	-15.130	12.680	-7.650
Daphnis_2015	104978	Body	-90.000	-180.000	90.000	180.000
GCS_Datum_73	4274	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
GCS_Datum_Lisboa_Bessel	104105	Portugal	29.240	-35.580	43.070	-6.190
GCS_Datum_Lisboa_Hayford	104106	Portugal	29.240	-35.580	43.070	-6.190
GCS_DB_REF	5681	Germany - onshore	47.270	5.860	55.090	15.040
GCS_Dealul_Piscului_1933	4316	Romania - onshore	43.620	20.260	48.270	29.740
GCS_Dealul_Piscului_1970	4317	Romania	43.440	20.260	48.270	31.410
GCS_Deception_Island	4736	Antarctica - Deception Island	-63.080	-60.890	-62.820	-60.350
GCS_Deimos_2000	104906	Body	-90.000	-180.00	90.000	180.00
GCS_Deir_ez_Zor	4227	Asia - Middle East - Lebanon and Syria onshore	32.310	35.040	37.300	42.380

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Desdemona_2000	104950	Body	-90.000	-180.00	90.000	180.00
GCS_Despina_2000	104961	Body	-90.000	-180.00	90.000	180.00
GCS_Deutsches_Hauptdreiecksnetz	4314	Germany	47.270	3.340	55.920	15.040
GCS_DGN_1995	4755	Indonesia	-13.950	92.010	7.790	141.460
DIBA15-IRF	10204	UK - Didcot to Banbury	51.570	-1.460	52.110	-1.150
GCS_Dione_2000	104928	Body	-90.000	-180.00	90.000	180.00
Dione_2015	104979	Body	-90.000	-180.000	90.000	180.000
GCS_Dominica_1945	4602	Dominica - onshore	15.140	-61.550	15.690	-61.200
DoPw22-IRF	10175	UK - Dovey Junction to Pwllheli	52.450	-4.510	53.010	-3.800
GCS_DOS_1968	37218	Solomon Islands - New Georgia - Ghizo (Gizo)	-8.860	156.440	-7.520	158.200
GCS_DOS_71_4	4710	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
GCS_Douala	4228	Cameroon	1.650	8.320	13.090	16.210
GCS_Douala_1948	4192	Cameroon - coastal area	2.160	8.450	4.990	10.400
GCS_DRUKREF_03	5264	Bhutan	26.700	88.740	28.330	92.130
GCS_Easter_Island_1967	4719	Chile - Easter Island onshore	-27.250	-109.510	-27.010	-109.160
EBBWV14-IRF	9939	UK - Newport to Ebbw Vale	51.500	-3.300	51.850	-2.890
ECML14_NB-IRF	9758	UK - Newcastle to Ashington	54.850	-1.900	55.300	-1.300
GCS_Egypt_1907	4229	Egypt	21.890	24.700	33.820	37.910
GCS_Egypt_1930	4199	Egypt - onshore	21.970	24.700	31.680	36.950
GCS_Egypt_Gulf_of_Suez_S-650_TL	4706	Egypt - Gulf of Suez	27.190	32.340	30.010	34.270
GCS_Elara_2000	104914	Body	-90.000	-180.00	90.000	180.00
GCS_Enceladus_2000	104929	Body	-90.000	-180.00	90.000	180.00
Enceladus_2015	104980	Body	-90.000	-180.000	90.000	180.000
EOS21-IRF	9739	UK - Tweedmouth to Aberdeen	55.550	-3.560	57.210	-1.940
GCS_Epimetheus_2000	104930	Body	-90.000	-180.00	90.000	180.00
Epimetheus_2015	104981	Body	-90.000	-180.000	90.000	180.000
GCS_Estonia_1937	104101	Estonia	57.520	20.370	60.000	28.200
GCS_Estonia_1992	4133	Estonia - onshore	57.520	21.740	59.750	28.200
GCS_Estonia_1997	4180	Estonia	57.520	20.370	60.000	28.200
ETRF2000	9067	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF2000-PL	9702	Poland	49.000	14.140	55.930	24.150
ETRF2005	9068	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF2014	9069	Europe - ETRF by country	32.880	-16.100	84.730	40.180
GCS_ETRF_1989	9059	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF90	9060	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF91	9061	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF92	9062	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF93	9063	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF94	9064	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF96	9065	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF97	9066	Europe - ETRF by country	32.880	-16.100	84.730	40.180
GCS_ETRS_1989	4258	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRS89_DREF91_2016	10284	Germany	47.270	3.340	55.920	15.040
GCS_EUREF_FIN	104129	Finland	58.840	19.080	70.090	31.590
GCS_Europa_2000	104915	Body	-90.000	-180.00	90.000	180.00

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Europa_2015	104874	Body	-90.000	-180.000	90.000	180.000
GCS_European_1950	4230	Europe - ED50 by country	25.710	-16.100	84.730	48.610
GCS_European_1950_ED77	4154	Iran	23.340	44.030	39.780	63.340
GCS_European_1979	4668	Europe - west	34.880	-10.560	84.730	38.010
GCS_European_1987	4231	Europe - west	34.880	-10.560	84.730	38.010
GCS_European_Libyan_Datum_1979	4159	Libya	19.490	9.310	35.230	26.210
GCS_Everest_1830	4042	Not specified	-90.000	-180.00	90.000	180.00
GCS_Everest_Adj_1937	4015	Not specified	-90.000	-180.00	90.000	180.00
GCS_Everest_Bangladesh	37202	Bangladesh	18.560	88.010	26.640	92.670
GCS_Everest_def_1962	4044	Not specified	-90.000	-180.00	90.000	180.00
GCS_Everest_def_1967	4016	Not specified	-90.000	-180.00	90.000	180.00
GCS_Everest_def_1975	4045	Not specified	-90.000	-180.00	90.000	180.00
GCS_Everest_India_Nepal	37203	India	3.870	65.600	35.510	97.420
GCS_Everest_Modified_1969	37006	Not specified	-90.000	-180.00	90.000	180.00
GCS_Fahud	4232	Oman - mainland	16.590	51.990	26.420	59.910
GCS_Fatu_Iva_1972	4688	French Polynesia - Marquesas Islands - Fatu Hiva	-10.600	-138.750	-10.360	-138.540
GCS_FD_1954	4741	Faroe Islands - onshore	61.330	-7.490	62.410	-6.330
GCS_FD_1958	4132	Iran - FD58	26.210	47.130	33.220	53.610
GCS_FEH2010	5593	Europe - Fehmarnbelt outer	54.330	10.660	54.830	12.010
GCS_Fiji_1956	4721	Fiji - main islands	-19.220	176.810	-16.100	-179.770
GCS_Fiji_1986	4720	Fiji - onshore	-20.810	176.810	-12.420	-178.150
GCS_Fischer_1960	37002	World	-90.000	-180.00	90.000	180.00
GCS_Fischer_1968	37003	World	-90.000	-180.00	90.000	180.00
GCS_Fischer_Modified	37004	World	-90.000	-180.00	90.000	180.00
GCS_fk89	4753	Faroe Islands - onshore	61.330	-7.490	62.410	-6.330
FNL22-IRF	9974	UK - Inverness to Thurso	57.400	-4.600	58.640	-3.000
GCS_Fort_Desaix	4625	Martinique - onshore	14.350	-61.290	14.930	-60.760
GCS_Fort_Marigot	4621	Guadeloupe - St Martin and St Barthelemy - onshore	17.820	-63.210	18.170	-62.730
GCS_Fort_Thomas_1955	37240	St Kitts and Nevis	16.340	-63.630	17.670	-62.200
GCS_Galatea_2000	104962	Body	-90.000	-180.00	90.000	180.00
GCS_Gambia	6894	Gambia - onshore	13.050	-16.880	13.830	-13.790
GCS_Gan_1970	4684	Maldives - onshore	-0.690	72.810	7.080	73.690
GCS_Ganymede_2000	104916	Body	-90.000	-180.00	90.000	180.00
Ganymede_2015	104875	Body	-90.000	-180.000	90.000	180.000
GCS_Garoua	4197	Cameroon - Garoua area	8.920	12.900	9.870	14.190
GBK19-IRF	9453	UK - Glasgow to Kilmarnock	55.550	-4.650	55.950	-4.050
GCS_GDA_1994	4283	Australia - GDA	-60.550	93.410	-8.470	173.340
GDA2020	7844	Australia - GDA	-60.550	93.410	-8.470	173.340
GCS_GDBD2009	5246	Brunei	4.010	112.370	6.310	115.370
GCS_GDM_2000	4742	Malaysia	0.850	98.020	7.810	119.610
GDM2008	104028	Mauritius	-23.810	53.800	-8.430	67.050
GGD	104022	Georgia - onshore	41.040	39.990	43.590	46.720
GCS_GGRS_1987	4121	Greece - onshore	34.880	19.570	41.750	28.300

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
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	19.210	-81.460	19.410	-81.040
GCS_Grand_Comoros	4646	Comoros - Njazidja (Grande Comore)	-11.990	43.160	-11.310	43.550
GCS_Greek	4120	Greece - onshore	34.880	19.570	41.750	28.300
GCS_Greek_Athens	4815	Greece - onshore	34.880	19.570	41.750	28.300
GCS_Greenland_1996	4747	Greenland	56.380	-75.000	87.020	7.990
GCS_Grenada_1953	4603	Grenada and southern Grenadines - onshore	11.940	-61.840	12.570	-61.350
GCS_GRS_1967	4036	Not specified	-90.000	-180.00	90.000	180.00
GCS_GRS_1980	4019	Not specified	-90.000	-180.00	90.000	180.00
GSB-IRF	10260	Denmark - onshore Bornholm	54.940	14.590	55.380	15.250
GS-IRF	10256	Denmark - onshore Jutland, Funen, Zealand and Lolland	54.510	8.000	57.800	12.870
GSK-2011	7683	Russia	39.870	18.920	85.190	-168.970
GCS_Guam_1963	4675	Pacific - US interests Mariana plate	1.640	129.480	23.900	149.550
GCS_Gulshan_303	4682	Bangladesh	18.560	88.010	26.640	92.670
GCS_Gunung_Segara	4613	Indonesia - Kalimantan E	-4.240	114.550	4.290	119.060
GCS_Gunung_Segara_Jakarta	4820	Indonesia - Kalimantan E	-4.240	114.550	4.290	119.060
Gusterberg(Ferro)	8042	Europe - Upper Austria, Salzburg and Bohemia	46.930	12.070	51.060	16.830
GCS_GUX_1	37221	Solomon Islands - Guadalcanal Island	-9.980	159.550	-9.200	160.880
GCS_Guyane_Francaise	4235	French Guiana	2.110	-54.610	8.880	-49.450
GWPBS22-IRF	10209	UK - London to Swansea	51.250	-4.260	52.060	-0.100
GWWAB22-IRF	10214	UK - Cardiff and the valleys	51.350	-3.600	51.810	-3.120
GWWWA22-IRF	10219	UK - Swansea to Fishguard	51.550	-5.160	52.060	-3.600
GCS_Hanoi_1972	4147	Vietnam - onshore	8.330	102.140	23.400	109.530
GCS_Hartebeesthoek_1994	4148	Africa - South Africa, Lesotho, and Eswatini	-50.320	13.330	-22.130	42.850
GCS_HD1909	3819	Hungary	45.740	16.110	48.580	22.900
GCS_Helene_2000	104931	Body	-90.000	-180.00	90.000	180.00
Helene_2015	104982	Body	-90.000	-180.000	90.000	180.000
GCS_Helle_1954	4660	Jan Mayen - onshore	70.750	-9.170	71.240	-7.870
GCS_Helmert_1906	4020	Not specified	-90.000	-180.00	90.000	180.00
GCS_Herat_North	4255	Afghanistan	29.400	60.500	38.480	74.920
GCS_Hermannskogel	104102	Europe - Austria and former Yugoslavia onshore	40.850	9.530	49.020	23.040
GCS_Himalia_2000	104917	Body	-90.000	-180.00	90.000	180.00
GCS_Hito_XVIII_1963	4254	South America - Tierra del Fuego	-55.960	-74.830	-51.650	-63.730
GCS_Hjorsey_1955	4658	Iceland - mainland	63.340	-24.660	66.590	-13.380
GCS_Hong_Kong_1963	4738	China - Hong Kong	22.130	113.760	22.580	114.510
GCS_Hong_Kong_1963_67	4739	China - Hong Kong	22.130	113.760	22.580	114.510

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Hong_Kong_1980	4611	China - Hong Kong	22.130	113.760	22.580	114.510
Hong_Kong_Geodetic_CS	8427	China - Hong Kong	22.130	113.760	22.580	114.510
GCS_Hough_1960	37005	World	-90.000	-180.00	90.000	180.00
HS2-IRF	9299	UK - London to Birmingham and Crewe	51.450	-2.750	53.300	0.000
GCS_HTRS96	4761	Croatia	41.620	13.000	46.540	19.430
GCS_Hughes_1980	10345	Not specified	-90.000	-180.00	90.000	180.00
HULLEE13-IRF	9964	UK - Leeds to Hull	53.600	-1.700	53.900	-0.270
GCS_Hungarian_1972	4237	Hungary	45.740	16.110	48.580	22.900
GCS_Hu_Tzu_Shan	4236	Taiwan - onshore - mainland and Penghu	21.870	119.250	25.340	122.060
GCS_Hyperion_2000	104932	Body	-90.000	-180.00	90.000	180.00
Hyperion_2015	104983	Body	-90.000	-180.000	90.000	180.000
GCS_Iapetus_2000	104933	Body	-90.000	-180.00	90.000	180.00
Iapetus_2015	104984	Body	-90.000	-180.000	90.000	180.000
IG05(2012)_Intermediate_CRS	6990	Asia - Middle East - Israel and Palestine Territory onshore	29.450	34.170	33.280	35.690
IG05_Intermediate_CRS	6983	Asia - Middle East - Israel and Palestine Territory onshore	29.450	34.170	33.280	35.690
IGb00	9009	World	-90.000	-180.000	90.000	180.000
IGb08	9017	World	-90.000	-180.000	90.000	180.000
IGb14	9380	World	-90.000	-180.000	90.000	180.000
GCS_IGC_1962_6th_Parallel_South	4697	Congo DR (Zaire) - 6th parallel south	-7.360	12.170	-3.290	29.640
GCS_IGCB_1955	4701	Congo DR (Zaire) - Bas Congo	-6.040	12.170	-4.280	16.280
IGD05	7136	Israel	29.450	32.990	33.530	35.690
IGD05(2012)	7139	Israel	29.450	32.990	33.530	35.690
GCS_IGM_1995	4670	Italy - including San Marino and Vatican	34.760	5.930	47.100	18.990
GCS_IGN53_Mare	4641	New Caledonia - Mare	-21.710	167.750	-21.320	168.190
GCS_IGN56_Lifou	4633	New Caledonia - Lifou	-21.240	166.980	-20.620	167.520
GCS_IGN63_Hiva_Oa	4689	French Polynesia - Marquesas Islands - Hiva Oa and Tahuata	-10.080	-139.230	-9.640	-138.750
GCS_IGN72_Grande_Terre	4662	New Caledonia - Grande Terre	-22.450	163.920	-20.030	167.090
GCS_IGN72_Nuku_Hiva	4630	French Polynesia - Marquesas Islands - Nuku Hiva, Ua Huka and Ua Pou	-9.570	-140.310	-8.720	-139.440
GCS_IGN_Astro_1960	4700	Mauritania - onshore	14.720	-17.080	27.300	-4.800
GCS_IGRS	3889	Iraq	29.060	38.790	37.390	48.750
IGS00	9006	World	-90.000	-180.000	90.000	180.000
IGS05	9012	World	-90.000	-180.000	90.000	180.000
GCS_IGS08	9014	World	-90.000	-180.00	90.000	180.00
IGS14	9019	World	-90.000	-180.000	90.000	180.000

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
IGS20	10178	World	-90.000	-180.000	90.000	180.000
IGS97	9003	World	-90.000	-180.000	90.000	180.000
GCS_IKBD_1992	4667	Asia - Middle East - Iraq-Kuwait boundary	29.060	46.360	30.320	48.610
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 & Cuu Long basin	7.990	102.140	23.400	110.000
GCS_Indian_1975	4240	Thailand - onshore and Gulf of Thailand	5.630	97.340	20.460	105.640
GCS_Indonesian_1974	4238	Indonesia - onshore	-10.980	95.160	5.970	141.010
GCS_International_1924	4022	Not specified	-90.000	-180.00	90.000	180.00
GCS_Io_2000	104918	Body	-90.000	-180.00	90.000	180.00
Io_2015	104876	Body	-90.000	-180.000	90.000	180.000
GCS_IRENET95	4173	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
GCS_ISN_1993	4659	Iceland	59.960	-30.870	69.590	-5.550
GCS_ISN_2004	5324	Iceland	59.960	-30.870	69.590	-5.550
ISN2016	8086	Iceland	59.960	-30.870	69.590	-5.550
GCS_Israel	4141	Israel, Palestine Territory, and Jordan	29.190	32.990	33.530	39.300
GCS_ISTS_061_1968	4722	South Georgia - onshore	-54.950	-38.080	-53.930	-35.740
GCS_ISTS_073_1969	4724	British Indian Ocean Territory - Diego Garcia	-7.490	72.300	-7.180	72.550
GCS_ITRF_1988	8988	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1989	8989	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1990	8990	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1991	8991	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1992	8992	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1993	8993	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1994	8994	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1996	8995	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_1997	8996	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_2000	8997	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_2005	8998	World	-90.000	-180.00	90.000	180.00
GCS_ITRF_2008	8999	World	-90.000	-180.00	90.000	180.00
ITRF2014	9000	World	-90.000	-180.000	90.000	180.000
ITRF2020	9990	World	-90.000	-180.000	90.000	180.000
GCS_JAD_2001	4758	Jamaica	14.080	-80.600	19.360	-74.510
GCS_Jamaica_1875	4241	Jamaica - onshore	17.640	-78.430	18.580	-76.170
GCS_Jamaica_1969	4242	Jamaica - onshore	17.640	-78.430	18.580	-76.170
GCS_Janus_2000	104934	Body	-90.000	-180.00	90.000	180.00
Janus_2015	104985	Body	-90.000	-180.000	90.000	180.000
GCS_JGD_2000	4612	Japan	17.090	122.380	46.050	157.650
GCS_JGD_2011	6668	Japan	17.090	122.380	46.050	157.650
GCS_Johnston_Island_1961	4725	Johnston Island	16.670	-169.590	16.790	-169.470
GCS_Jordan	104130	Jordan	29.180	34.880	33.380	39.310

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Jouik_1961	4679	Mauritania - north coast	19.370	-17.080	21.340	-15.880
GCS_Juliet_2000	104951	Body	-90.000	-180.00	90.000	180.00
GCS_Jupiter_2000	104908	Body	-90.000	-180.00	90.000	180.00
GCS_Kalianpur_1880	4243	Asia - Bangladesh; India; Myanmar; Pakistan - onshore	8.020	60.860	37.070	101.170
GCS_Kalianpur_1937	4144	Asia - Bangladesh; India; Myanmar; Pakistan – onshore; Moattama offshore	8.020	60.860	37.070	101.170
GCS_Kalianpur_1962	4145	Pakistan	21.050	60.860	37.070	77.830
GCS_Kalianpur_1975	4146	India - mainland	8.020	68.130	35.510	97.420
GCS_Kandawala	4244	Sri Lanka - onshore	5.860	79.640	9.880	81.950
GCS_Karbala_1979_Polservice	4743	Iraq - onshore	29.060	38.790	37.390	48.610
GCS_Kasai_1953	4696	Congo DR (Zaire) - Kasai - SE	-7.310	21.500	-5.010	26.260
GCS_Katanga_1955	4695	Congo DR (Zaire) - Katanga	-13.460	21.740	-4.990	30.780
GCS_Kerguelen_Island_1949	4698	French Southern Territories - Kerguelen onshore	-49.780	68.690	-48.600	70.620
GCS_Kertau	4245	Asia - Malaysia (west including SCS) and Singapore	1.130	99.590	7.810	105.820
GCS_Kertau_RSO	4751	Asia - Malaysia (west) and Singapore	1.130	99.590	6.720	104.600
KGD2002	4737	Korea, Republic of (South Korea)	28.600	122.710	40.270	134.280
KK-IRF	10265	Denmark - Copenhagen	55.510	12.230	55.820	12.730
GCS_KKJ	4123	Finland - onshore	59.750	19.240	70.090	31.590
GCS_Korean_Datum_1985	4162	Korea, Republic of (South Korea) - onshore	33.140	124.530	38.640	131.010
GCS_Korean_Datum_1995	4166	Korea, Republic of (South Korea) - onshore	33.140	124.530	38.640	131.010
KOSOVAREF01	9140	Kosovo	41.850	19.970	43.250	21.800
GCS_Kousseri	4198	Cameroon - N'Djamena area	11.700	14.170	12.770	15.090
KSA-GRF17	9333	Saudi Arabia	16.290	34.440	32.160	55.670
GCS_KUDAMS	4319	Kuwait	28.530	46.540	30.090	49.530
GCS_Kusaie_1951	4735	Micronesia - Kosrae (Kusaie)	5.210	162.850	5.430	163.100
GCS_Kuwait_Oil_Company	4246	Kuwait - onshore	28.530	46.540	30.090	48.480
GCS_Kyrg-06	7686	Kyrgyzstan	39.190	69.240	43.220	80.290
GCS_La_Canoa	4247	Venezuela - onshore	0.640	-73.380	12.250	-59.800
GCS_Lake	4249	Venezuela - Lake Maracaibo	8.720	-72.400	11.040	-70.780
GCS_Lao_1993	4677	Laos	13.920	100.090	22.500	107.640
GCS_Lao_1997	4678	Laos	13.920	100.090	22.500	107.640
GCS_Larissa_2000	104963	Body	-90.000	-180.00	90.000	180.00
Larissa_2015	104997	Body	-90.000	-180.000	90.000	180.000
GCS_LC5_1961	37243	Cayman Islands - Cayman Brac and Little Cayman	19.630	-80.140	19.780	-79.690
GCS_Leda_2000	104919	Body	-90.000	-180.00	90.000	180.00
GCS_Leigon	4250	Ghana	1.400	-3.790	11.160	2.100
GCS_Le_Pouce_1934	4699	Mauritius - mainland	-20.570	57.250	-19.940	57.850

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_LGD2006	4754	Libya	19.490	9.310	35.230	26.210
GCS_Liberia_1964	4251	Liberia - onshore	4.290	-11.520	8.520	-7.360
GCS_Lisbon	4207	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
GCS_Lisbon_1890	4666	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
GCS_Lisbon_1890_Lisbon	4904	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
GCS_Lisbon_Lisbon	4803	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
GCS_Little_Cayman_1961	4726	Cayman Islands - Little Cayman and Cayman Brac	19.630	-80.140	19.780	-79.690
GCS_LKS_1992	4661	Latvia	55.670	19.060	58.090	28.240
GCS_LKS_1994	4669	Lithuania	53.890	19.020	56.450	26.820
LKS-2020	10305	Latvia	55.670	19.060	58.090	28.240
GCS_Locodjo_1965	4142	Cote d'Ivoire (Ivory Coast)	1.020	-8.610	10.740	-2.480
GCS_Loma_Quintana	4288	Venezuela - north of 7°45'N	7.750	-73.380	12.250	-59.800
GCS_Lome	4252	Togo	2.910	-0.150	11.140	2.420
LTF2004(G)	9547	Europe - Lyon-Turin	44.870	4.650	45.890	7.880
GCS_LUREF	4181	Luxembourg	49.440	5.730	50.190	6.530
GCS_Luzon_1911	4253	Philippines - onshore	4.990	116.890	19.450	126.650
GCS_Lysithea_2000	104920	Body	-90.000	-180.00	90.000	180.00
Macao_1920	8428	China - Macao	22.060	113.520	22.230	113.680
GCS_MACAO_2008	8431	China - Macao	22.060	113.520	22.230	113.680
GCS_Madeira_1936	4185	Portugal - Madeira archipelago onshore	32.350	-17.310	33.150	-16.230
GCS_Madrid_1870_Madrid	4903	Spain - mainland onshore	35.950	-9.370	43.820	3.390
GCS_Madzansua	4128	Mozambique - west - Tete province	-17.760	30.210	-14.010	35.370
GCS_MAGNA	4686	Colombia	-4.230	-84.770	15.510	-66.870
MAGNA-SIRGAS_2018	20046	Colombia	-4.230	-84.770	15.510	-66.870
GCS_Mahe_1971	4256	Seychelles - Mahe Island	-4.860	55.300	-4.500	55.590
GCS_Majuro	104113	Marshall Islands	1.770	157.470	17.880	175.520
GCS_Makassar	4257	Indonesia - Sulawesi SW	-6.540	118.710	-1.880	120.780
GCS_Makassar_Jakarta	4804	Indonesia - Sulawesi SW	-6.540	118.710	-1.880	120.780
GCS_Malongo_1987	4259	Africa - Angola (Cabinda) and DR Congo (Zaire) - offshore	-6.040	10.530	-5.050	12.370
MALS09-IRF	10224	UK - London to Leamington Spa	51.450	-2.260	52.910	-0.050
GCS_Manoca	4260	Cameroon	1.650	8.320	13.090	16.210
GCS_Manoca_1962	4193	Cameroon - coastal area	2.160	8.450	4.990	10.400
GCS_MARCARIO_SOLIS	5371	Panama	5.000	-84.320	12.510	-77.040
GCS_MARGEN	5354	Bolivia	-22.910	-69.660	-9.670	-57.520
GCS_Mars_1979	104904	Body	-90.000	-180.00	90.000	180.00
GCS_Mars_2000	104905	Body	-90.000	-180.00	90.000	180.00
Mars_2000_(Sphere)	104971	Body	-90.000	-180.000	90.000	180.000
GCS_Massawa	4262	Eritrea	12.360	36.440	18.100	43.310

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Maupiti_1983	4692	French Polynesia - Society Islands - Maupiti	-16.570	-152.390	-16.340	-152.140
GCS_Mauritania_1999	4702	Mauritania	14.720	-20.040	27.300	-4.800
GCS_Merchich	4261	Africa - Morocco and Western Sahara - onshore	20.710	-17.160	35.970	-1.010
GCS_Mercury_2000	104900	Body	-90.000	-180.00	90.000	180.00
Mercury_2015	104974	Body	-90.000	-180.000	90.000	180.000
Methone_2015	104986	Body	-90.000	-180.000	90.000	180.000
GCS_Metis_2000	104921	Body	-90.000	-180.00	90.000	180.00
Metis_2015	104877	Body	-90.000	-180.000	90.000	180.000
GCS_Mexican_Datum_of_1993	4483	Mexico	12.100	-122.190	32.720	-84.640
GCS_Mexico_ITRF2008	6365	Mexico	12.100	-122.190	32.720	-84.640
GCS_MGI	4312	Europe - Austria and former Yugoslavia onshore	40.850	9.530	49.020	23.040
GCS_MGI_1901	3906	Europe - former Yugoslavia onshore	40.850	13.380	46.880	23.040
GCS_MGI_Ferro	4805	Europe - Austria and former Yugoslavia onshore	40.850	9.530	49.020	23.040
GCS_Mhast_1951	4703	Angola - Cabinda	-6.040	10.530	-4.380	13.100
GCS_Mhast_Offshore	4705	Africa - Angola (Cabinda) and DR Congo (Zaire) - offshore	-6.040	10.530	-5.050	12.370
GCS_Mhast_Onshore	4704	Africa - Angola (Cabinda) and DR Congo (Zaire) - coastal	-6.040	10.530	-4.380	13.100
GCS_Midway_1961	4727	Midway Islands - Sand and Eastern Islands	28.130	-177.450	28.280	-177.310
GCS_Mimas_2000	104935	Body	-90.000	-180.00	90.000	180.00
Mimas_2015	104987	Body	-90.000	-180.000	90.000	180.000
GCS_Minna	4263	Nigeria	1.920	2.660	13.900	14.650
GCS_Miranda_2000	104952	Body	-90.000	-180.00	90.000	180.00
MML07-IRF	9372	UK - London to Sheffield	51.460	-1.890	53.420	0.160
MMN	9251	Argentina - Tierra del Fuego onshore	-55.110	-68.640	-52.590	-63.730
MMS	9253	Argentina - Tierra del Fuego onshore	-55.110	-68.640	-52.590	-63.730
MOLDOR11-IRF	9871	UK - Manchester to Dore	53.250	-2.400	53.550	-1.390
GCS_MOLDREF99	4023	Moldova	45.440	26.630	48.470	30.130
GCS_MONREF_1997	104134	Mongolia	41.580	87.760	52.150	119.940
GCS_Monte_Mario	4265	Italy - including San Marino and Vatican	34.760	5.930	47.100	18.990
GCS_Monte_Mario_Rome	4806	Italy - including San Marino and Vatican	34.760	5.930	47.100	18.990
GCS_Montserrat_1958	4604	Montserrat - onshore	16.620	-62.290	16.870	-62.080
GCS_Moon_2000	104903	Body	-90.000	-180.00	90.000	180.00
GCS_Moorea_1987	4691	French Polynesia - Society Islands - Moorea	-17.630	-150.000	-17.410	-149.730
GCS_MOP78	4639	Wallis and Futuna - Wallis	-13.410	-176.250	-13.160	-176.070

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Mount_Dillon	4157	Trinidad and Tobago - Tobago - onshore	11.080	-60.900	11.410	-60.440
GCS_Moznet	4130	Mozambique	-27.710	30.210	-10.090	43.030
GCS_Mporaloko	4266	Gabon	-6.370	7.030	2.320	14.520
MRH21-IRF	9866	UK - Cardiff to Lincoln	51.350	-3.270	53.260	-0.360
GCS_MSK_1942	104135	Mongolia	41.580	87.760	52.150	119.940
MTRF-2000	8818	Saudi Arabia	16.290	34.440	32.160	55.670
MWC18-IRF	20033	UK - Manchester, Wigan and Chester	53.090	-3.150	53.650	-2.100
GCS_NAD_1927_CGQ77	4609	Canada - Quebec	44.990	-79.850	62.620	-57.100
GCS_NAD_1927_Definition_1976	4608	Canada - Ontario	41.670	-95.160	56.900	-74.350
NAD_1983_(FBN)	8860	USA - FBN	-14.590	144.580	49.380	-64.510
NAD_1983_(HARN_Corrected)	8545	Caribbean – PR and US VI - onshore	17.620	-67.970	18.570	-64.510
GCS_NAD_1983_2011	6318	USA – CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
GCS_NAD_1983_CORS96	6783	USA – CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
NAD83(CSRS96)	8232	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v2	8237	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v3	8240	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v4	8246	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v5	8249	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v6	8252	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v7	8255	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v8	10414	Canada	38.210	-141.010	86.460	-40.730
GCS_NAD_1983_HARN_Adj_MN_Anoka	104700	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Becker	104701	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Beltrami_North	104702	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Beltrami_South	104703	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Benton	104704	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Big_Stone	104705	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Blue_Earth	104706	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Brown	104707	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Carlton	104708	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Carver	104709	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Cass_North	104710	USA – Minnesota	43.490	-97.220	49.380	-89.490

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_NAD_1983_HARN_Adj_MN_Cass_South	104711	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Chippewa	104712	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Chisago	104713	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Cook_North	104714	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Cook_South	104715	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Cottonwood	104716	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Crow_Wing	104717	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Dakota	104718	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Dodge	104719	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Douglas	104720	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Faribault	104721	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Fillmore	104722	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Freeborn	104723	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Goodhue	104724	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Grant	104725	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Hennepin	104726	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Houston	104727	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Isanti	104728	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Itasca_North	104729	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Itasca_South	104730	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Jackson	104731	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Kanabec	104732	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Kandiyohi	104733	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Kittson	104734	USA – Minnesota	43.490	-97.220	49.380	-89.490

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_NAD_1983_HARN_Adj_MN_Koochiching	104735	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Lac_Qui_Parle	104736	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Lake_of_the_Woods_North	104737	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Lake_of_the_Woods_South	104738	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Le_Sueur	104739	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Lincoln	104740	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Lyon	104741	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Mahnomen	104743	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Marshall	104744	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Martin	104745	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_McLeod	104742	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Meeker	104746	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Morrison	104747	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Mower	104748	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Murray	104749	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Nicollet	104750	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Nobles	104751	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Norman	104752	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Olmsted	104753	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Ottertail	104754	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Pennington	104755	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Pine	104756	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Pipestone	104757	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Polk	104758	USA – Minnesota	43.490	-97.220	49.380	-89.490

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_NAD_1983_HARN_Adj_MN_Pope	104759	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Ramsey	104760	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Red_Lake	104761	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Redwood	104762	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Renville	104763	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Rice	104764	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Rock	104765	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Roseau	104766	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Scott	104770	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Sherburne	104771	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Sibley	104772	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Stearns	104773	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Steele	104774	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Stevens	104775	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_St_Louis	104786	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_St_Louis_Central	104768	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_St_Louis_North	104767	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_St_Louis_South	104769	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Swift	104776	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Todd	104777	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Traverse	104778	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Wabasha	104779	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Wadena	104780	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Waseca	104781	USA – Minnesota	43.490	-97.220	49.380	-89.490

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_NAD_1983_HARN_Adj_MN_Watonwan	104782	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Winona	104783	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Wright	104784	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_MN_Yellow_Medicine	104785	USA – Minnesota	43.490	-97.220	49.380	-89.490
GCS_NAD_1983_HARN_Adj_WI_Chippewa	104808	USA – Wisconsin	42.480	-92.890	47.310	-86.250
GCS_NAD_1983_MA11	6325	Pacific – US interests Mariana plate	1.640	129.480	23.900	149.550
GCS_NAD_1983_MARP00	9072	Pacific – US interests Mariana plate	1.640	129.480	23.900	149.550
GCS_NAD_1983_NSRS2007	4759	USA – CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
GCS_NAD_1983_PA11	6322	Pacific – US interests Pacific plate	-17.560	157.470	31.800	-151.270
GCS_NAD_1983_PACP00	9075	Pacific – US interests Pacific plate	-17.560	157.470	31.800	-151.270
GCS_Nahrwan_1934	4744	Asia – Middle East –SE Iraq and SW Iran	29.060	38.790	37.390	51.060
GCS_Nahrwan_1967	4270	Asia – Middle East – Qatar offshore and UAE	22.630	50.550	27.050	57.130
GCS_Naiad_2000	104964	Body	-90.000	-180.00	90.000	180.00
GCS_Nakhl-e_Ghanem	4693	Iran – Kangan district	27.300	51.800	28.200	53.010
GCS_Naparima_1955	4158	Trinidad and Tobago – Trinidad – onshore	9.990	-61.980	10.900	-60.850
GCS_Naparima_1972	4271	Trinidad and Tobago – Tobago – onshore	11.080	-60.900	11.410	-60.440
GCS_NEA74_Noumea	4644	New Caledonia – Grande Terre – Noumea	-22.370	166.350	-22.190	166.540
GCS_Nepal_Nagarkot	6207	Nepal	26.340	80.060	30.430	88.210
GCS_Neptune_2000	104960	Body	-90.000	-180.00	90.000	180.00
GCS_Nereid_2000	104965	Body	-90.000	-180.00	90.000	180.00
GCS_New_Beijing	4555	China – onshore	18.110	73.620	53.560	134.770
GCS_New_Zealand_1949	4272	New Zealand – onshore and nearshore	-47.650	165.870	-33.890	179.270
GCS_NGN	4318	Kuwait – onshore	28.530	46.540	30.090	48.480
GCS_NGO_1948	4273	Norway – onshore	57.900	4.390	71.240	31.320
GCS_NGO_1948_Oslo	4817	Norway – onshore	57.900	4.390	71.240	31.320
GCS_Nord_de_Guerre_Paris	4902	France – Alsace	47.420	6.840	49.070	8.230
GCS_Nord_Sahara_1959	4307	Algeria	18.970	-8.670	38.800	11.990
GCS_North_American_1927	4267	North America – NAD27	7.150	167.650	83.170	-47.740
GCS_North_American_1983	4269	North America – NAD83	14.920	167.650	86.450	-47.730
GCS_North_American_1983_CSRS	4617	Canada	38.210	-141.010	86.460	-40.730
GCS_North_American_1983_HARN	4152	USA – HARN	-14.590	144.580	71.400	-64.510
GCS_Nouakchott_1965	4680	Mauritania – central coast	16.810	-16.570	19.410	-15.590

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
NSIDC_Authalic_Sphere	10346	World	-90.000	-180.000	90.000	180.000
GCS_NSWC_9Z_2	4276	World	-90.000	-180.00	90.000	180.00
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	-180.00	90.000	180.00
GCS_NZGD_2000	4167	New Zealand	-55.950	160.600	-25.880	-171.200
GCS_Oberon_2000	104953	Body	-90.000	-180.00	90.000	180.00
GCS_Observatario	4129	Mozambique – south	-26.870	31.290	-19.840	35.650
GCS_Observatorio_Meteorologico_1939	37245	Portugal – Azores W – onshore	39.300	-31.340	39.770	-31.020
GCS_Observatorio_Meteorologico_1965	104126	China – Macao	22.060	113.520	22.230	113.680
GCS_Ocotepeque_1935	5451	Central America – Guatemala to Costa Rica	7.980	-92.290	17.830	-82.530
GCS_Old_Hawaiian	4135	USA – Hawaii – onshore	18.870	-160.300	22.290	-154.740
GCS_Old_Hawaiian_Intl_1924	104138	USA – Hawaii – onshore	18.870	-160.300	22.290	-154.740
GCS_Oman	37206	Oman	14.330	51.990	26.740	63.380
ONGD14	7373	Oman	14.330	51.990	26.740	63.380
ONGD17	9294	Oman	14.330	51.990	26.740	63.380
GCS_Ophelia_2000	104954	Body	-90.000	-180.00	90.000	180.00
GCS_OSGB_1936	4277	UK - Britain and UKCS 49°45'N to 61°N, 9°W to 2°E	49.750	-9.010	61.010	2.010
GCS_OSGB_1970_SN	4278	UK – Great Britain onshore and nearshore; Isle of Man	49.790	-8.820	60.940	1.920
GCS_OSNI_1952	4188	UK – Northern Ireland – onshore	53.960	-8.180	55.360	-5.340
Ostenfeld-IRF	10268	Denmark - northern Schleswig	54.800	8.370	55.470	10.160
GCS_OS_SN_1980	4279	Europe – British Isles – UK and Ireland onshore	49.810	-10.560	60.900	1.840
OxWo08-IRF	10229	UK - Oxford to Worcester	51.650	-2.310	52.260	-1.150
GCS_Padang_1884	4280	Indonesia – Sumatra	-5.990	95.160	5.970	106.130
GCS_Padang_1884_Jakarta	4808	Indonesia – Sumatra	-5.990	95.160	5.970	106.130
GCS_Palestine_1923	4281	Asia – Middle East – Israel, Jordan, and Palestine onshore	29.180	34.170	33.380	39.310
Pallene_2015	104988	Body	-90.000	-180.000	90.000	180.000
GCS_Pampa_del_Castillo	4161	Argentina – 42.5°S to 50.3°S	-50.340	-73.590	-42.490	-65.470
GCS_Pan_2000	104936	Body	-90.000	-180.00	90.000	180.00
Pan_2015	104989	Body	-90.000	-180.000	90.000	180.000
GCS_PANAMA08_2011	104646	Panama	5.000	-84.320	12.510	-77.040
GCS_Panama-Colon_1911	5467	Panama – onshore	7.150	-83.040	9.680	-77.190
GCS_Pandora_2000	104937	Body	-90.000	-180.00	90.000	180.00
Pandora_2015	104897	Body	-90.000	-180.000	90.000	180.000
GCS_Pasiphae_2000	104922	Body	-90.000	-180.00	90.000	180.00
GCS_PD/83	4746	Germany – Thuringen	50.200	9.920	51.640	12.560

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_PDO_1993	4134	Oman – onshore	16.590	51.990	26.580	59.910
GCS_Peru96	5373	Peru	-21.050	-84.680	-0.030	-68.670
GCS_Petrels_1972	4636	Antarctica – Adelie Land – Petrels island	-66.780	139.440	-66.100	141.500
GCS_Phobos_2000	104907	Body	-90.000	-180.00	90.000	180.00
Phobos_2015	104872	Body	-90.000	-180.000	90.000	180.000
GCS_Phoebe_2000	104938	Body	-90.000	-180.00	90.000	180.00
Phoebe_2015	104898	Body	-90.000	-180.000	90.000	180.000
GCS_Pico_de_Las_Nieves	4728	Spain - Canary Islands onshore	27.580	-18.220	29.470	-13.370
GCS_Pitcairn_1967	4729	Pitcairn – Pitcairn Island	-25.140	-130.160	-25.000	-130.010
GCS_Pitcairn_2006	4763	Pitcairn – Pitcairn Island	-25.140	-130.160	-25.000	-130.010
GCS_Pluto_2000	104969	Body	-90.000	-180.00	90.000	180.00
Pluto_2015	104998	Body	-90.000	-180.000	90.000	180.000
PN68	9403	Spain - Canary Islands onshore	27.580	-18.220	29.470	-13.370
GCS_PNG94	5546	Papua New Guinea	-14.750	139.200	2.580	162.810
GCS_Pohnpei	104109	Micronesia	-1.190	135.270	13.430	165.680
GCS_Point_58	4620	Africa – 12th parallel N	10.260	-17.190	15.700	30.420
GCS_Pointe_Geologie_Perroud_1950	4637	Antarctica – Adelie Land coastal area	-67.130	136.000	-65.610	142.000
GCS_Pointe_Noire	4282	Congo	-6.910	8.840	3.720	18.650
Polydeuces_2015	104899	Body	-90.000	-180.000	90.000	180.000
GCS_Portia_2000	104955	Body	-90.000	-180.00	90.000	180.00
GCS_Porto_Santo_1936	4615	Portugal – Madeira archipelago onshore	32.350	-17.310	33.150	-16.230
GCS_Porto_Santo_1995	4663	Portugal – Madeira archipelago onshore	32.350	-17.310	33.150	-16.230
GCS_POSGAR	4172	Argentina	-58.410	-73.590	-21.780	-52.630
GCS_POSGAR_1994	4694	Argentina	-58.410	-73.590	-21.780	-52.630
GCS_POSGAR_1998	4190	Argentina	-58.410	-73.590	-21.780	-52.630
GCS_POSGAR_2007	5340	Argentina	-58.410	-73.590	-21.780	-52.630
GCS_Principe	4824	Sao Tome and Principe – onshore – Principe	1.480	7.270	1.760	7.520
GCS_Prometheus_2000	104939	Body	-90.000	-180.00	90.000	180.00
Prometheus_2015	104993	Body	-90.000	-180.000	90.000	180.000
GCS_Proteus_2000	104966	Body	-90.000	-180.00	90.000	180.00
GCS_Provisional_S_American_1956	4248	South America – PSAD56 by country	-43.500	-81.410	12.680	-47.990
GCS_PRS_1992	4683	Philippines	3.000	116.040	22.180	129.950
GCS_PTRA08	5013	Portugal – Azores and Madeira	29.240	-35.580	43.070	-12.480
GCS_Puck_2000	104956	Body	-90.000	-180.00	90.000	180.00
GCS_Puerto_Rico	4139	Caribbean – Puerto Rico and Virgin Islands – onshore	17.620	-67.970	18.780	-64.250
GCS_Pulkovo_1942	4284	Europe – FSU onshore	35.140	19.570	81.910	-168.970
GCS_Pulkovo_1942_Adj_1958	4179	Europe – onshore – eastern – S-42(58)	39.630	9.920	54.890	31.410

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Pulkovo_1942_Adj_1983	4178	Europe – onshore – eastern – S-42(83)	41.240	9.920	54.740	28.680
GCS_Pulkovo_1995	4200	Russia	39.870	18.920	85.190	-168.970
GCS_PZ_1990	4740	World	-90.000	-180.00	90.000	180.00
PZ-90.02	9474	World	-90.000	-180.000	90.000	180.000
PZ-90.11	9475	World	-90.000	-180.000	90.000	180.000
GCS_Qatar_1948	4286	Qatar – onshore	24.550	50.690	26.200	51.680
GCS_Qatar_1974	4285	Qatar	24.550	50.550	27.050	53.040
GCS_QND_1995	4614	Qatar – onshore	24.550	50.690	26.200	51.680
GCS_Qornoq_1927	4194	Greenland – west coast	59.740	-73.290	79.000	-42.520
GCS_Rassadiran	4153	Iran – Taheri refinery	27.390	52.500	27.610	52.710
RBEPP12-IRF	10277	UK - Reading to Penzance	50.050	-5.630	51.700	-0.850
GCS_RD/83	4745	Germany – East Germany all states	50.200	9.920	54.740	15.040
GCS_RDN2008	6706	Italy – including San Marino and Vatican	34.760	5.930	47.100	18.990
REDGEOMIN	9696	Chile	-59.870	-113.210	-17.500	-65.720
GCS_REGCAN95	4081	Spain – Canary Islands	24.600	-21.930	32.760	-11.750
GCS_REGVEN	4189	Venezuela	0.640	-73.380	16.750	-58.950
GCS_Reunion_1947	4626	Reunion – onshore	-21.420	55.160	-20.810	55.910
GCS_Reykjavik_1900	4657	Iceland – mainland	63.340	-24.660	66.590	-13.380
GCS_RGAF09	5489	Caribbean – French Antilles	14.080	-63.660	18.540	-57.520
RGAF09_(lon-lat)	7086	Caribbean – French Antilles	14.080	-63.660	18.540	-57.520
GCS_RGF_1993	4171	France	41.150	-9.860	51.560	10.380
RGF93_(lon-lat)	7084	France	41.150	-9.860	51.560	10.380
RGF93_v2	9777	France	41.150	-9.860	51.560	10.380
RGF93_v2b	9782	France	41.150	-9.860	51.560	10.380
RGF93_v2b_(lon-lat)	9784	France	41.150	-9.860	51.560	10.380
RGF93_v2_(lon-lat)	9779	France	41.150	-9.860	51.560	10.380
GCS_RGFG_1995	4624	French Guiana	2.110	-54.610	8.880	-49.450
RGFG95_(lon-lat)	7041	French Guiana	2.110	-54.610	8.880	-49.450
GCS_RGM_2004	4470	Mayotte	-14.490	43.680	-11.330	46.700
RGM04_(lon-lat)	7039	Mayotte	-14.490	43.680	-11.330	46.700
GCS_RGNC_1991	4645	New Caledonia	-26.450	156.250	-14.830	174.280
GCS_RGNC_1991-93	4749	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC_1991-93_(lon-lat)	10307	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC15	10310	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC15_(lon-lat)	10312	New Caledonia	-26.450	156.250	-14.830	174.280
GCS_RGPF	4687	French Polynesia	-31.240	-158.130	-4.520	-131.970
GCS_RGR_1992	4627	Reunion	-24.720	51.830	-18.280	58.240
RGR92_(lon-lat)	7037	Reunion	-24.720	51.830	-18.280	58.240
GCS_RGRDC_2005	4046	Congo DR (Zaire) – south	-13.460	11.790	-3.410	29.810
RGSH2020	10299	Algeria	18.970	-8.670	38.800	11.990
GCS_RGSPM_2006	4463	St Pierre and Miquelon	43.410	-57.100	47.370	-55.900
RGSPM06_(lon-lat)	7035	St Pierre and Miquelon	43.410	-57.100	47.370	-55.900
GCS_RGTAAF07	7073	French Southern and Antarctic Territories	-67.130	37.980	-20.910	142.000

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
RGTAAF07-(lon-lat)	7133	French Southern and Antarctic Territories	-67.130	37.980	-20.910	142.000
RGWF96	8900	Wallis and Futuna	-15.940	179.490	-9.840	-174.270
RGWF96_(lon-lat)	8902	Wallis and Futuna	-15.940	179.490	-9.840	-174.270
GCS_Rhea_2000	104940	Body	-90.000	-180.00	90.000	180.00
Rhea_2015	104994	Body	-90.000	-180.000	90.000	180.000
GCS_Roma_1940	104127	Italy – including San Marino and Vatican	34.760	5.930	47.100	18.990
GCS_Rosalind_2000	104957	Body	-90.000	-180.00	90.000	180.00
GCS_RRAF_1991	4558	Caribbean – French Antilles	14.080	-63.660	18.530	-57.520
RSAO13	8699	Angola	-18.020	8.200	-4.380	24.090
GCS_RSRGD2000	4764	Antarctica – Ross Sea Region	-90.000	144.990	-59.990	-144.990
GCS_RT_1990	4124	Sweden	54.960	10.030	69.070	24.170
GCS_RT38	4308	Sweden – onshore	55.280	10.930	69.070	24.170
GCS_RT38_Stockholm	4814	Sweden – onshore	55.280	10.930	69.070	24.170
S34J-IRF	10158	Denmark - onshore Jutland and Funen	54.670	8.000	57.800	11.290
S34S-IRF	10249	Denmark - onshore Zealand and Lolland	54.510	10.790	56.790	12.870
GCS_S42_Hungary	37257	Hungary	45.740	16.110	48.580	22.900
S45B-IRF	10252	Denmark - onshore Bornholm	54.940	14.590	55.380	15.250
GCS_SAD_1969_96	5527	Brazil	-35.710	-74.010	7.040	-25.280
GCS_Sainte_Anne	4622	Guadeloupe – Grande-Terre and surrounding islands – onshore	15.800	-61.850	16.550	-60.970
GCS_Saint_Pierre_et_Miquelon_1950	4638	St Pierre and Miquelon – onshore	46.690	-56.480	47.190	-56.070
GCS_Santo_DOS_1965	4730	Vanuatu – northern islands	-17.320	166.470	-14.570	168.710
GCS_Sao_Braz	37249	Portugal – Azores E – onshore	36.870	-25.920	37.960	-24.720
GCS_Sao_Tome	4823	Sao Tome and Principe – onshore – Sao Tome	-0.040	6.410	0.460	6.820
GCS_Sapper_Hill_1943	4292	Falkland Islands – onshore	-52.510	-61.550	-50.960	-57.600
GCS_Saturn_2000	104925	Body	-90.000	-180.00	90.000	180.00
GCS_Schwarzeck	4293	Namibia	-30.640	8.240	-16.950	25.270
SCM22-IRF	9969	UK - Motherwell to Inverness	55.700	-4.400	57.550	-3.300
GCS_Scoresbysund_1952	4195	Greenland – Scoresbysund area	68.660	-29.690	74.580	-19.890
GCS_Segora	4294	Indonesia – Kalimantan SE	-4.240	114.550	0.000	117.990
GCS_Selvagem_Grande_1938	4616	Portugal – Selvagens onshore	29.980	-16.110	30.210	-15.790
GCS_Serindung	4295	Indonesia – Kalimantan W – coastal	0.060	108.790	2.130	109.780
ShAb07-IRF	10185	UK - Shrewsbury to Aberystwyth	52.370	-4.160	52.770	-2.600
SHGD2015	7886	St Helena – St Helena Island	-16.080	-5.850	-15.850	-5.590

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Sibun_Gorge_1922	5464	Belize – onshore	15.880	-89.220	18.490	-87.720
GCS_Sierra_Leone_1924	4174	Sierra Leone – Freetown Peninsula	8.320	-13.340	8.550	-13.130
GCS_Sierra_Leone_1960	104103	Sierra Leone	4.220	-16.570	10.000	-10.260
GCS_Sierra_Leone_1968	4175	Sierra Leone – onshore	6.880	-13.350	10.000	-10.260
GCS_Sinope_2000	104923	Body	-90.000	-180.00	90.000	180.00
GCS_SIRGAS	4170	South America – SIRGAS 1995 by country	-59.870	-113.210	16.750	-26.000
SIRGAS-CON_DGF00P01	8972	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF01P01	8973	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF01P02	8974	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF02P01	8975	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF04P01	8976	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF05P01	8977	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF06P01	8978	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF07P01	8979	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF08P01	8980	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR09P01	8981	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR10P01	8982	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR11P01	8983	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR13P01	8984	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR14P01	8985	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR15P01	8986	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR17P01	8987	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
GCS_SIRGAS_2000	4674	Latin America – SIRGAS 2000 by country	-59.870	-122.190	32.720	-25.280
GCS_SIRGAS-Chile_2002	5360	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2010	8949	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2013	9148	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2016	9153	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2021	20041	Chile	-59.870	-113.210	-17.500	-65.720
GCS_SIRGAS_ES2007.8	5393	El Salvador	9.970	-91.430	14.440	-87.650

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_SIRGAS-ROU98	5381	Uruguay	-37.770	-58.490	-30.090	-50.010
GCS_S_JTSK	4156	Europe – Czechoslovakia	47.730	12.090	51.060	22.560
GCS_S_JTSK/05	5228	Czechia	48.580	12.090	51.060	18.860
GCS_S_JTSK/05_Ferro	5229	Czechia	48.580	12.090	51.060	18.860
GCS_S_JTSK_Ferro	4818	Europe – Czechoslovakia	47.730	12.090	51.060	22.560
S-JTSK_[JTSK03]	8351	Slovakia	47.730	16.840	49.610	22.560
GCS_SLD99	5233	Sri Lanka – onshore	5.860	79.640	9.880	81.950
GCS_Slovenia_1996	4765	Slovenia	45.420	13.380	46.880	16.610
SMITB20-IRF	10272	UK - Okehampton to Penstone	50.650	-4.100	50.850	-3.600
GCS_Solomon_1968	4718	Solomon Islands – onshore main islands	-10.900	155.620	-6.550	162.440
GCS_South_American_1969	4618	South America – SAD69 by country	-55.960	-91.720	12.520	-25.280
GCS_South_Asia_Singapore	37207	Singapore	1.130	103.590	1.470	104.070
GCS_South_East_Island_1943	6892	Seychelles – Seychelles Bank	-4.860	55.150	-3.660	56.010
GCS_South_Yemen	4164	Yemen – South Yemen – mainland	12.540	43.370	19.000	53.140
GCS_Sphere	4035	Not specified	-90.000	-180.00	90.000	180.00
GCS_Sphere_ARC_INFO	37008	World	-90.000	-180.00	90.000	180.00
GCS_Sphere_Clarke_1866_Authalic	4052	Not specified	-90.000	-180.00	90.000	180.00
GCS_Sphere_EMEP	104128	Europe	34.000	-30.000	85.000	50.000
GCS_Sphere_GRS_1980_Authalic	4047	Not specified	-90.000	-180.00	90.000	180.00
GCS_Sphere_GRS_1980_Mean_ Radius	104047	Not specified	-90.000	-180.00	90.000	180.00
GCS_Sphere_International_1924_ Authalic	4053	Not specified	-90.000	-180.00	90.000	180.00
SRB_ETRS89	8685	Serbia	42.230	18.810	46.190	23.010
GCS_SREF98	4075	Serbia	42.230	18.810	46.190	23.010
SRGI2013	9470	Indonesia	-13.950	92.010	7.790	141.460
GCS_ST71_Belep	4643	New Caledonia - Belep	-19.850	163.540	-19.500	163.750
GCS_ST84_Ile_des_Pins	4642	New Caledonia - Ile des Pins	-22.730	167.360	-22.490	167.610
GCS_ST87_Ouvea	4750	New Caledonia - Ouvea	-20.770	166.440	-20.340	166.710
GCS_St_George_Island	4138	USA - Alaska - St. George Island	56.490	-169.880	56.670	-169.380
St_Helena_Tritan	7881	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
GCS_St_Kitts_1955	4605	St Kitts and Nevis - onshore	17.060	-62.920	17.460	-62.500
GCS_St_Lawrence_Island	4136	USA - Alaska - St. Lawrence Island	62.890	-171.970	63.840	-168.590
GCS_St_Lucia_1955	4606	St Lucia - onshore	13.660	-61.130	14.160	-60.820
GCS_St_Paul_Island	4137	USA - Alaska - St. Paul Island	57.060	-170.510	57.280	-170.040
St._Stephen(Ferro)	8043	Europe - Lower Austria and Moravia	47.420	14.410	50.450	18.860
GCS_St_Vincent_1945	4607	St Vincent and the Grenadines - onshore	12.540	-61.520	13.440	-61.070
GCS_Sudan	4296	Sudan	8.640	21.820	22.240	39.760
Sun_2015	104975	Body	-90.000	-180.000	90.000	180.000
GCS_SVY21	4757	Singapore	1.130	103.590	1.470	104.070

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_SWEREF99	4619	Sweden	54.960	10.030	69.070	24.170
GCS_Swiss_TRF_1995	4151	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
SYC20-IRF	10237	UK - Shrewsbury to Crewe	52.650	-2.910	53.160	-2.300
GCS_Tahaa_1954	4629	French Polynesia - Society Islands - Bora Bora, Huahine, Raiatea, Tahaa	-16.960	-151.910	-16.170	-150.890
GCS_Tahiti_1952	4628	French Polynesia - Society Islands - Moorea and Tahiti	-17.930	-150.000	-17.410	-149.090
GCS_Tahiti_1979	4690	French Polynesia - Society Islands - Tahiti	-17.930	-149.700	-17.440	-149.090
GCS_Tananarive_1925	4297	Madagascar - onshore and nearshore	-26.590	42.530	-11.690	51.030
GCS_Tananarive_1925_Paris	4810	Madagascar - onshore	-25.640	43.180	-11.890	50.560
Tapi_Aike	9248	Argentina - south Santa Cruz	-52.430	-73.280	-50.330	-68.300
GCS_Telesto_2000	104941	Body	-90.000	-180.00	90.000	180.00
Telesto_2015	104995	Body	-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	-26.870	30.210	-10.420	40.900
GCS_Tethys_2000	104942	Body	-90.000	-180.00	90.000	180.00
Tethys_2015	104996	Body	-90.000	-180.000	90.000	180.000
GCS_TGD2005	5886	Tonga	-25.680	-179.080	-14.140	-171.280
GCS_Thalassa_2000	104967	Body	-90.000	-180.00	90.000	180.00
GCS_Thebe_2000	104924	Body	-90.000	-180.00	90.000	180.00
GCS_Timbalai_1948	4298	Asia - Brunei and East Malaysia	0.850	109.310	7.670	119.610
GCS_Titan_2000	104943	Body	-90.000	-180.00	90.000	180.00
GCS_Titania_2000	104958	Body	-90.000	-180.00	90.000	180.00
GCS_TM65	4299	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
GCS_TM75	4300	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
GCS_Tokyo	4301	Asia - Japan and Korea	20.370	122.830	45.540	154.050
Tokyo_1892	5132	Asia - Japan and Korea	20.370	122.830	45.540	154.050
TPEN11-IRF	9364	UK - Liverpool to Leeds	53.320	-3.140	53.900	-1.340
GCS_Trinidad_1903	4302	Trinidad and Tobago - Trinidad	9.830	-62.090	11.510	-60.000
GCS_Tristan_1968	4734	St Helena - Tristan da Cunha	-40.420	-12.760	-37.000	-9.800
GCS_Triton_2000	104968	Body	-90.000	-180.00	90.000	180.00
GCS_Trucial_Coast_1948	4303	UAE - Abu Dhabi and Dubai - onshore	22.630	51.560	25.340	56.030
GCS_TUREF	5252	Turkey	34.420	25.620	43.450	44.830
GCS_TWD_1967	3821	Taiwan - onshore - mainland and Penghu	21.870	119.250	25.340	122.060
GCS_TWD_1997	3824	Taiwan	17.360	114.320	26.960	123.610
GCS_Ukraine_2000	5561	Ukraine	43.180	22.150	52.380	40.180
GCS_Umbriel_2000	104959	Body	-90.000	-180.00	90.000	180.00

GCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
GCS_Uranus_2000	104944	Body	-90.000	-180.00	90.000	180.00
GCS_Vanua_Levu_1915	4748	Fiji - Vanua Levu and Taveuni	-17.070	178.420	-16.100	-179.770
GCS_Venus_1985	104901	Body	-90.000	-180.00	90.000	180.00
GCS_Venus_2000	104902	Body	-90.000	-180.00	90.000	180.00
GCS_Vientiane_1982	4676	Laos	13.920	100.090	22.500	107.640
GCS_Viti_Levu_1912	4752	Fiji - Viti Levu	-18.320	177.190	-17.250	178.750
GCS_Viti_Levu_1916	4731	Fiji - Viti Levu	-18.320	177.190	-17.250	178.750
GCS_VN_2000	4756	Vietnam - onshore	8.330	102.140	23.400	109.530
GCS_Voirol_1875	4304	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_1875_Grad	104139	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_1875_Paris	4811	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_1879	4671	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_1879_Grad	104140	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_1879_Paris	4821	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_Unifie_1960	4305	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_Unifie_1960_Degree	104305	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Voirol_Unifie_1960_Paris	4812	Algeria - north of 32°N	31.990	-2.950	37.140	9.090
GCS_Wake_Eniwetok_1960	4732	Pacific - Marshall Islands, Wake - onshore	8.660	162.270	19.380	167.820
GCS_Wake_Island_1952	4733	Wake - onshore	19.220	166.550	19.380	166.720
GCS_Walbeck	37007	World	-90.000	-180.00	90.000	180.00
GCS_WGS_1966	4760	World	-90.000	-180.00	90.000	180.00
GCS_WGS_1972	4322	World	-90.000	-180.00	90.000	180.00
GCS_WGS_1972_BE	4324	World	-90.000	-180.00	90.000	180.00
GCS_WGS_1984	4326	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G1150)	9055	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G1674)	9056	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G1762)	9057	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G2139)	9755	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G730)	9053	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G873)	9054	World	-90.000	-180.000	90.000	180.000
WGS_1984_(Transit)	8888	World	-90.000	-180.000	90.000	180.000
GCS_Xian_1980	4610	China - onshore	18.110	73.620	53.560	134.770
GCS_Xrail84	104050	UK - London	51.200	-0.700	51.800	0.600
GCS_Yacare	4309	Uruguay - onshore	-35.000	-58.490	-30.090	-53.090
GCS_Yemen_NGN_1996	4163	Yemen	8.950	41.080	19.000	57.960
GCS_Yoff	4310	Senegal	10.640	-20.220	16.700	-11.360
GCS_Zanderij	4311	Suriname	1.830	-58.080	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_RGS	Grad
GCS_Batavia_Jakarta	4813	Jakarta	Degree
GCS_Belge_1950_Brussels	4809	Brussels	Degree

GCS Name	WKID	Prime Meridian	Angular Unit
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
Gusterberg(Ferro)	8042	Ferro	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_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_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
St._Stephen(Ferro)	8043	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

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

Datum Name	WKID	Spheroid Name
1_Ceres_2015	106972	1_Ceres_2015
4_Vesta_2015	106973	4_Vesta_2015
D_Abidjan_1987	6143	Clarke_1880_RGS
AbInvA96_2020_Intermediate_Reference_Frame	1273	GRS_1980
D_Accra	6168	War_Office
D_Aden_1925	1135	Clarke_1880_RGS
D_Adindan	6201	Clarke_1880_RGS
D_Adrastea_2000	106909	Adrastea_2000_IAU_IAG
Aegaeon_2015	106867	Aegaeon_2015
D_Afgooye	6205	Krasovsky_1940
D_Agadez	6206	Clarke_1880_IGN
D_Ain_el_Abd_1970	6204	International_1924
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

Datum Name	WKID	Spheroid Name
D_Ammassalik_1958	6196	International_1924
D_Ananke_2000	106911	Ananke_2000_IAU_IAG
D_Anguilla_1957	6600	Clarke_1880_RGS
D_Anna_1_1965	6708	Australian
Anthe_2015	106868	Anthe_2015
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
Atlas_2015	106976	Atlas_2015
D_ATS_1977	6122	ATS_1977
D_Australian_1966	6202	Australian
D_Australian_1984	6203	Australian
D_Australian_Antarctic_1998	6176	GRS_1980
Australian_Terrestrial_Reference_Frame_2014	1291	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
Batavia_(Jakarta)	6813	Bessel_1841
D_Beacon_E_1945	6709	International_1924
D_Beduaram	6213	Clarke_1880_IGN
D_Beijing_1954	6214	Krasovsky_1940
D_Bekaa_Valley_1920	1137	Clarke_1880_RGS
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
BH_ETRS89	1358	GRS_1980
D_Bhutan_National_Geodetic_Datum	1058	GRS_1980
D_Bianca_2000	106947	Bianca_2000_IAU_IAG
D_Bioko	1136	International_1924
D_Bissau	6165	International_1924
D_Bogota	6218	International_1924

Datum Name	WKID	Spheroid Name
Bogota_1975_(Bogota)	6802	International_1924
Brenner_Base_Tunnel_2000	1367	WGS_1984
D_Bukit_Rimpah	6219	Bessel_1841
Bulgaria_Geodetic_System_2005	1167	GRS_1980
D_Cadastre_1997	1037	International_1924
California_SRS_Epoch_2017.50_(NAD83)	106012	GRS_1980
D_Callisto_2000	106912	Callisto_2000_IAU_IAG
Callisto_2015	106862	Callisto_2015
D_Calypso_2000	106927	Calypso_2000_IAU_IAG
Calypso_2015	106977	Calypso_2015
D_Camacupa	6220	Clarke_1880_RGS
Camacupa_2015	1217	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
Carthage_(Paris)	6816	Clarke_1880_IGN
D_Cayman_Islands_Geodetic_Datum_2011	1100	GRS_1980
D_CH1903	6149	Bessel_1841
CH1903_(Bern)	6801	Bessel_1841
D_CH1903+	6150	Bessel_1841
D_Charon_2000	106970	Charon_2000_IAU_IAG
Charon_2015	106899	Charon_2015
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_1866	6008	Clarke_1866
CNH22_Intermediate_Reference_Frame	1336	GRS_1980
D_Combani_1950	6632	International_1924
D_Conakry_1905	6315	Clarke_1880_IGN
Copenhagen_Commune_Intermediate_Datum	1349	Danish_1876
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
COV23_Intermediate_Reference_Frame	1366	GRS_1980
D_Cressida_2000	106949	Cressida_2000_IAU_IAG
D_Croatian_Terrestrial_Reference_System	6761	GRS_1980
CR-SIRGAS	1225	GRS_1980
D_CSG_1967	6623	International_1924
CWS13_Intermediate_Reference_Frame	1338	GRS_1980
D_Cyprus_Geodetic_Reference_System_1993	1112	WGS_1984

Datum Name	WKID	Spheroid Name
D_D48	106278	Bessel_1841
D_Dabola_1981	6155	Clarke_1880_IGN
Daphnis_2015	106978	Daphnis_2015
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_Deutsche_Bahn_Reference_System	1081	Bessel_1841
D_Deutsches_Hauptdreiecksnetz	6314	Bessel_1841
DIBA15_Intermediate_Reference_Frame	1339	GRS_1980
D_Dione_2000	106928	Dione_2000_IAU_IAG
Dione_2015	106979	Dione_2015
D_Dominica_1945	6602	Clarke_1880_RGS
DoPw22_Intermediate_Reference_Frame	1334	GRS_1980
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
EBBWV14_Intermediate_Reference_Frame	1319	GRS_1980
ECML14_NB_Intermediate_Reference_Frame	1310	GRS_1980
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
Enceladus_2015	106880	Enceladus_2015
EOS21_Intermediate_Reference_Frame	1308	GRS_1980
D_Epimetheus_2000	106930	Epimetheus_2000_IAU_IAG
Epimetheus_2015	106881	Epimetheus_2015
D_Estonia_1937	106101	Bessel_1841
D_Estonia_1992	6133	GRS_1980
D_Estonia_1997	6180	GRS_1980
D_ETRF_1989	1178	GRS_1980
ETRF2000_Poland	1305	GRS_1980
D_ETRS_1989	6258	GRS_1980
ETRS89_DREF91_Realization_2016	1353	GRS_1980
D_Europa_2000	106915	Europa_2000_IAU_IAG
Europa_2015	106863	Europa_2015
D_European_1950	6230	International_1924
D_European_1950_ED77	6154	International_1924

Datum Name	WKID	Spheroid Name
D_European_1979	6668	International_1924
D_European_1987	6231	International_1924
D_European_Libyan_1979	6159	International_1924
European_Terrestrial_Reference_Frame_1990	1179	GRS_1980
European_Terrestrial_Reference_Frame_1991	1180	GRS_1980
European_Terrestrial_Reference_Frame_1992	1181	GRS_1980
European_Terrestrial_Reference_Frame_1993	1182	GRS_1980
European_Terrestrial_Reference_Frame_1994	1183	GRS_1980
European_Terrestrial_Reference_Frame_1996	1184	GRS_1980
European_Terrestrial_Reference_Frame_1997	1185	GRS_1980
European_Terrestrial_Reference_Frame_2000	1186	GRS_1980
European_Terrestrial_Reference_Frame_2005	1204	GRS_1980
European_Terrestrial_Reference_Frame_2014	1206	GRS_1980
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_1969	106006	Everest_Modified_1969
EWR2_Intermediate_Reference_Frame	1311	GRS_1980
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_Fehmarnbelt_Datum_2010	1078	GRS_1980
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
FNL22_Intermediate_Reference_Frame	1321	GRS_1980
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_Gambia	1139	Clarke_1880_RGS
D_Gan_1970	6684	International_1924
D_Ganymede_2000	106916	Ganymede_2000_IAU_IAG
Ganymede_2015	106864	Ganymede_2015
D_Garoua	6197	Clarke_1880_RGS
GBK19_Intermediate_Reference_Frame	1289	GRS_1980
D_GDA_1994	6283	GRS_1980
GDA2020	1168	GRS_1980
D_GDBD2009	1056	GRS_1980
D_GDM_2000	6742	GRS_1980

Datum Name	WKID	Spheroid Name
Generalstabens_System_Bornholm_Intermediate_Datum	1348	Danish_1876
Generalstabens_System_Intermediate_Datum	1347	Danish_1876
Geocentric_Datum_of_Mauritius_2008	106028	GRS_1980
Geodezicheskaya_Sistema_Koordinat_2011	1159	GSK-2011
Georgia_Geodetic_Datum	106010	GRS_1980
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
Greek_(Athens)	6815	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
Gunung_Segara_(Jakarta)	6820	Bessel_1841
Gusterberg_(Ferro)	1188	Zach_1812
D_GUX_1	106221	International_1924
D_Guyane_Francaise	6235	International_1924
GWPBS22_Intermediate_Reference_Frame	1340	GRS_1980
GWWAB22_Intermediate_Reference_Frame	1341	GRS_1980
GWWWA22_Intermediate_Reference_Frame	1342	GRS_1980
D_Hanoi_1972	6147	Krasovsky_1940
D_Hartebeesthoek_1994	6148	WGS_1984
D_Helene_2000	106931	Helene_2000_IAU_IAG
Helene_2015	106882	Helene_2015
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
Hong_Kong_Geodetic	1209	GRS_1980
D_Hough_1960	106005	Hough_1960
HS2_Intermediate_Reference_Frame	1264	GRS_1980
D_Hughes_1980	1359	Hughes_1980
HULLEE13_Intermediate_Reference_Frame	1317	GRS_1980
D_Hungarian_1972	6237	GRS_1967
D_Hungarian_Datum_1909	1024	Bessel_1841
D_Hu_Tzu_Shan	6236	International_1924

Datum Name	WKID	Spheroid Name
D_Hyperion_2000	106932	Hyperion_2000_IAU_IAG
Hyperion_2015	106883	Hyperion_2015
D_Iapetus_2000	106933	Iapetus_2000_IAU_IAG
Iapetus_2015	106884	Iapetus_2015
IG05(2012)_Intermediate_Datum	1144	GRS_1980
IG05_Intermediate_Datum	1142	GRS_1980
IGb00	1246	GRS_1980
IGb08	1248	GRS_1980
IGb14	1272	GRS_1980
D_IGC_1962_Arc_of_the_6th_Parallel_South	6697	Clarke_1880_RGS
D_IGM_1995	6670	GRS_1980
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
IGS00	1245	GRS_1980
IGS05	1247	GRS_1980
IGS08	1141	GRS_1980
IGS14	1191	GRS_1980
IGS20	1333	GRS_1980
IGS97	1244	GRS_1980
D_Indian_1954	6239	Everest_Adjustment_1937
D_Indian_1960	6131	Everest_Adjustment_1937
D_Indian_1975	6240	Everest_Adjustment_1937
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
International_Terrestrial_Reference_Frame_2014	1165	GRS_1980
International_Terrestrial_Reference_Frame_2020	1322	GRS_1980
D_Io_2000	106918	Io_2000_IAU_IAG
Io_2015	106865	Io_2015
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
Islands_Net_2016	1187	GRS_1980
D_Israel	6141	GRS_1980
Israel_Geodetic_Datum_2005	1114	GRS_1980
Israeli_Geodetic_Datum_2005(2012)	1115	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

Datum Name	WKID	Spheroid Name
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
D_Jamaica_1969	6242	Clarke_1866
D_Jamaica_2001	6758	WGS_1984
D_Janus_2000	106934	Janus_2000_IAU_IAG
Janus_2015	106985	Janus_2015
D_JGD_2000	6612	GRS_1980
D_JGD_2011	1128	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
Kingdom_of_Saudi_Arabia_Geodetic_Reference_Frame_2017	1268	GRS_1980
D_KKJ	6123	International_1924
D_Korea_Geodetic_Datum_2002	6737	GRS_1980
D_Korean_Datum_1985	6162	Bessel_1841
D_Korean_Datum_1995	6166	WGS_1984
Kosovo_Reference_System_2001	1251	GRS_1980
D_Kousseri	6198	Clarke_1880_RGS
D_Kusaie_1951	6735	International_1924
D_Kuwait_Oil_Company	6246	Clarke_1880_RGS
D_Kuwait_Utility	6319	GRS_1980
D_Kyrgyz_Republic_2006	1160	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

Datum Name	WKID	Spheroid Name
D_Larissa_2000	106963	Larissa_2000_IAU_IAG
Larissa_2015	106897	Larissa_2015
D_Latvia_1992	6661	GRS_1980
Latvian_coordinate_system_2020	1356	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
Lisbon_1890_(Lisbon)	6904	Bessel_1841
Lisbon_1937_(Lisbon)	6803	International_1924
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_Reference_Frame	6181	International_1924
D_Luzon_1911	6253	Clarke_1866
Lyon_Turin_Ferroviaire_2004	1295	GRS_1980
D_Lysithea_2000	106920	Lysithea_2000_IAU_IAG
Macao_1920	1207	International_1924
D_MACAO_2008	1208	International_1924
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
D_Majuro	106270	Clarke_1866
D_Makassar	6257	Bessel_1841
Makassar_(Jakarta)	6804	Bessel_1841
D_Malongo_1987	6259	International_1924
MALS09_Intermediate_Reference_Frame	1343	GRS_1980
D_Manoca	6260	Clarke_1880_RGS
D_Manoca_1962	6193	Clarke_1880_IGN
D_Marco_Geodesico_Nacional	1063	GRS_1980
Marco_Geocentrico_Nacional_de_Referencia_2018	1329	GRS_1980
D_Mars_1979	106904	Mars_1979_IAU_IAG
D_Mars_2000	106905	Mars_2000_IAU_IAG
Mars_2000_(Sphere)	106971	Mars_2000_(Sphere)
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
Mercury_2015	106974	Mercury_2015

Datum Name	WKID	Spheroid Name
Methone_2015	106986	Methone_2015
D_Metis_2000	106921	Metis_2000_IAU_IAG
Metis_2015	106866	Metis_2015
D_Mexican_Datum_of_1993	1042	GRS_1980
D_Mexico_ITRF2008	1120	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
Militar-Geographische_Institut_(Ferro)	6805	Bessel_1841
D_Mimas_2000	106935	Mimas_2000_IAU_IAG
Mimas_2015	106987	Mimas_2015
Ministerio_de_Marina_Norte	1258	International_1924
Ministerio_de_Marina_Sur	1259	International_1924
D_Minna	6263	Clarke_1880_RGS
D_Miranda_2000	106952	Miranda_2000_IAU_IAG
MML07_Intermediate_Reference_Frame	1271	GRS_1980
MOLDOR11_Intermediate_Reference_Frame	1315	GRS_1980
D_MOLDREF99	1032	GRS_1980
MOMRA_Terrestrial_Reference_Frame_2000	1218	GRS_1980
D_Monte_Mario	6265	International_1924
Monte_Mario_(Rome)	6806	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
MRH21_Intermediate_Reference_Frame	1314	GRS_1980
MWC18_Intermediate_Reference_Frame	1324	GRS_1980
D_NAD_1927_CGQ77	6609	Clarke_1866
D_NAD_1927_Definition_1976	6608	Clarke_1866
NAD_1983_(Federal_Base_Network)	1211	GRS_1980
NAD_1983_(High_Accuracy_Reference_Network-Corrected)	1212	GRS_1980
D_NAD_1983_2011	1116	GRS_1980
D_NAD_1983_CORS96	1133	GRS_1980
North_American_Datum_of_1983_(CSRS96)	1192	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_2	1193	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_3	1194	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_4	1195	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_5	1196	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_6	1197	GRS_1980
North_American_Datum_of_1983_(CSRS)_version_7	1198	GRS_1980
D_NAD_1983_HARN_Adj_MN_Anoka	106700	S_GRS_1980_Adj_MN_Anoka

Datum Name	WKID	Spheroid Name
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
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

Datum Name	WKID	Spheroid Name
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
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_HARN_Adj_WI_CP	106806	GRS_1980_Adj_WI_CP
D_NAD_1983_MA11	1118	GRS_1980
D_NAD_1983_MARP00	1221	GRS_1980
D_NAD_1983_NSRS2007	6759	GRS_1980
D_NAD_1983_PA11	1117	GRS_1980
D_NAD_1983_PACP00	1249	GRS_1980
D_Nahrwan_1934	6744	Clarke_1880_RGS
D_Nahrwan_1967	6270	Clarke_1880_RGS

Datum Name	WKID	Spheroid Name
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	1111	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
NGO_1948_(Oslo)	6817	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
North_American_Datum_of_1983_(CSRS)_version_8	1365	GRS_1980
D_North_American_Michigan	6268	Clarke_1866_Michigan
D_Nouakchott_1965	6680	Clarke_1880_RGS
NSIDC_International_1924_Authalic_Sphere	1360	Sphere_International_1924_Authalic
D_NSWC_9Z_2	6276	NWL_9D
D_NTF	6275	Clarke_1880_IGN
Nouvelle_Triangulation_Francaise_(Paris)	6807	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
Oman_National_Geodetic_Datum_2014	1147	GRS_1980
Oman_National_Geodetic_Datum_2017	1263	GRS_1980
D_Ophelia_2000	106954	Ophelia_2000_IAU_IAG
D_OSGB_1936	6277	Airy_1830
D_OSGB_1970_SN	6278	Airy_1830
D_OSNI_1952	6188	Airy_1830
Ostenfeld_Intermediate_Datum	1350	Bessel_1841
D_OS_SN_1980	6279	Airy_1830
OxWo08_Intermediate_Reference_Frame	1344	GRS_1980
D_Padang_1884	6280	Bessel_1841
D_Palestine_1923	6281	Clarke_1880_Benoit
Pallene_2015	106988	Pallene_2015

Datum Name	WKID	Spheroid Name
D_Pampa_del_Castillo	6161	International_1924
D_Pan_2000	106936	Pan_2000_IAU_IAG
Pan_2015	106989	Pan_2015
PANAMA08_2011	106272	GRS_1980
D_Panama-Colon-1911	1072	Clarke_1866
D_Pandora_2000	106937	Pandora_2000_IAU_IAG
Pandora_2015	106890	Pandora_2015
D_Papua_New_Guinea_Geodetic_Datum_1994	1076	GRS_1980
D_Parametrop_Zemp_1990	6740	PZ_1990
Parametry_Zemli_1990.02	1157	PZ_1990
Parametry_Zemli_1990.11	1158	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
Phobos_2015	106861	Phobos_2015
D_Phoebe_2000	106938	Phoebe_2000_IAU_IAG
Phoebe_2015	106891	Phoebe_2015
D_Pico_de_Las_Nieves	6728	International_1924
Pico_de_las_Nieves_1968	1286	International_1924
D_Pitcairn_1967	6729	International_1924
D_Pitcairn_2006	6763	WGS_1984
D_Pluto_2000	106969	Pluto_2000_IAU_IAG
Pluto_2015	106898	Pluto_2015
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
Polydeuces_2015	106892	Polydeuces_2015
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	WGS_1984
D_POSGAR_1998	6190	GRS_1980
D_POSGAR_2007	1062	WGS_1984
D_Potsdam_1983	6746	Bessel_1841
D_Principe	1046	International_1924
D_Prometheus_2000	106939	Prometheus_2000_IAU_IAG
Prometheus_2015	106893	Prometheus_2015
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

Datum Name	WKID	Spheroid Name
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
RBEPP12_Intermediate_Reference_Frame	1352	GRS_1980
D_Red_Geodesica_de_Canarias_1995	1035	GRS_1980
Reference_System_de_Angola_2013	1220	GRS_1980
D_REGVEN	6189	GRS_1980
D_Reseau_Geodesique_de_la_Polynesie_Francaise	6687	GRS_1980
Reseau_Geodesique_de_Nouvelle_Caledonie_2015	1357	GRS_1980
Reseau_Geodesique_Francais_1993_v2	1312	GRS_1980
Reseau_Geodesique_Francais_1993_v2b	1313	GRS_1980
Red_Geodesica_Para_Mineria_en_Chile	1304	GRS_1980
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
Reseau_Geodesique_de_Wallis_et_Futuna_1996	1223	GRS_1980
Reseau_Geodesique_des_Antilles_Francaises_2009	1073	GRS_1980
D_Reseau_Geodesique_des_Terres_Australes_et_Antarctiques_Francaises_2007	1113	GRS_1980
Reseau_National_Belge_1950_(Brussels)	6809	International_1924
D_Rete_Dinamica_Nazionale_2008	1132	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
Rhea_2015	106894	Rhea_2015
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

Datum Name	WKID	Spheroid Name
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
SCM22_Intermediate_Reference_Frame	1320	GRS_1980
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
Serbian_Spatial_Reference_System_2000	1214	GRS_1980
D_Serindung	6295	Bessel_1841
D_SGNP_MARCARIO_SOLIS	1066	GRS_1980
ShAb07_Intermediate_Reference_Frame	1335	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
SIRGAS-Chile_realization_1_epoch_2002	1064	GRS_1980
SIRGAS-Chile_realization_2_epoch_2010	1243	GRS_1980
SIRGAS-Chile_realization_3_epoch_2013	1252	GRS_1980
SIRGAS-Chile_realization_4_epoch_2016	1253	GRS_1980
SIRGAS-Chile_realization_5_epoch_2021	1327	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF00P01	1227	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF01 P01	1228	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF01 P02	1229	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF02 P01	1230	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF04 P01	1231	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF05 P01	1232	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF06 P01	1233	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF07 P01	1234	GRS_1980
SIRGAS_Continuously_Operating_Network_DGF08 P01	1235	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR09 P01	1236	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR10 P01	1237	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR11 P01	1238	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR13 P01	1239	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR14 P01	1240	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR15P01	1241	GRS_1980
SIRGAS_Continuously_Operating_Network_SIR17P01	1242	GRS_1980
D_SIRGAS_ES2007.8	1069	GRS_1980
D_SIRGAS-ROU98	1068	WGS_1984
Sistem_Referensi_Geospasial_Indonesia_2013	1293	WGS_1984
D_S_JTSK	6156	Bessel_1841
D_S_JTSK_05	1052	Bessel_1841
D_S_JTSK_05_Ferro	1055	Bessel_1841

Datum Name	WKID	Spheroid Name
S-JTSK_[JTSK03]	1201	Bessel_1841
D_Slovenia_Geodetic_Datum_1996	6765	GRS_1980
SMITB20_Intermediate_Reference_Frame	1351	GRS_1980
D_Solomon_1968	6718	International_1924
Sonatrach_Reference_Frame_2020	1355	GRS_1980
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_East_Island_1943	1138	Clarke_1880_RGS
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
D_Sphere_EMEP	106276	Sphere_EMEP
D_Sphere_GRS_1980_Authalic	6047	Sphere_GRS_1980_Authalic
D_Sphere_GRS_1980_Mean_Radius	106047	Sphere_GRS_1980_Mean_Radius
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
St_Helena_Geodetic_Datum_2015	1174	GRS_1980
St_Helena_Tritan	1173	WGS_1984
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
Stockholm_1938_(Stockholm)	6814	Bessel_1841
D_St_Paul_Island	6137	Clarke_1866
St._Stephen_(Ferro)	1189	Zach_1812
D_St_Vincent_1945	6607	Clarke_1880_RGS
D_Sudan	6296	Clarke_1880_IGN
Sun_2015	106975	Sun_2015
D_SVY21	6757	WGS_1984
D_SWEREF99	6619	GRS_1980
D_Swiss_TRF_1995	6151	GRS_1980
SYC20_Intermediate_Reference_Frame	1345	GRS_1980
System_34_Jylland_Intermediate_Datum	1332	International_1924
System_34_Sjaelland_Intermediate_Datum	1337	International_1924
System_45_Bornholm_Intermediate_Datum	1346	International_1924
System_of_the_Unified_Trigonometrical_Cadastral_Network_(Ferro)	6818	Bessel_1841
D_Tahaa_1954	6629	International_1924
D_Tahiti_1952	6628	International_1924
D_Tahiti_1979	6690	International_1924
D_Tananarive_1925	6297	International_1924
Tananarive_1925_(Paris)	6810	International_1924

Datum Name	WKID	Spheroid Name
Tapi_Aike	1257	International_1924
D_Telesto_2000	106941	Telesto_2000_IAU_IAG
Telesto_2015	106895	Telesto_2015
D_Tern_Island_1961	6707	International_1924
D_Tete	6127	Clarke_1866
D_Tethys_2000	106942	Tethys_2000_IAU_IAG
Tethys_2015	106896	Tethys_2015
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
Tokyo_1892	1048	Bessel_1841
D_Tonga_Geodetic_Datum_2005	1095	GRS_1980
TPEN11_Intermediate_Reference_Frame	1266	GRS_1980
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
Voirol_1875_(Paris)	6811	Clarke_1880_IGN
D_Voirol_1879	6671	Clarke_1880_IGN
Voirol_1879_(Paris)	6821	Clarke_1880_IGN
D_Wake_Eniwetok_1960	6732	Hough_1960
D_Wake_Island_1952	6733	International_1924
D_Walbeck	106007	Walbeck
D_WGS_1966	6760	NWL_9D
D_WGS_1972	6322	WGS_1972
D_WGS_1972_BE	6324	WGS_1972
D_WGS_1984	6326	WGS_1984
WGS_1984_(G2139)	1309	WGS_1984
World_Geodetic_System_1984_(G1150)	1154	WGS_1984

Datum Name	WKID	Spheroid Name
World_Geodetic_System_1984_(G1674)	1155	WGS_1984
World_Geodetic_System_1984_(G1762)	1156	WGS_1984
World_Geodetic_System_1984_(G730)	1152	WGS_1984
World_Geodetic_System_1984_(G873)	1153	WGS_1984
World_Geodetic_System_1984_(Transit)	1166	WGS_1984
D_Xian_1980	6610	Xian_1980
D_Xrail84	106050	WGS_1984
D_Yacare	6309	International_1924
D_Yemen_NGN_1996	6163	WGS_1984
D_Yoff	6310	Clarke_1880_IGN
D_Zanderij	6311	International_1924

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

Angular Unit of Measure Name	WKID	Conversion Value: Radians per Unit
Arcminute	9103	0.00029088820867
Arcsecond	9104	0.00000484813681
Degree	9102	0.01745329251994
Grad	9105	0.01570796326795
Microradian	9109	0.00000100000000
Mil_6400	9114	0.00098174770425
Milliarcsecond	1031	0.00000000484814
Minute_Centesimal	9112	0.00015707963268
Radian	9101	1.00000000000000
Second_Centesimal	9113	0.00000157079633

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

Name	WKID	Longitude Relative to Greenwich
Athens	8912	23.71633750
Bern	8907	7.43958333
Bogota	8904	-74.08091667
Brussels	8910	4.36797500
Ferro	8909	-17.66666667
Greenwich	8901	0.00000000
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	0.00000000
Rome	8906	12.45233333
Stockholm	8911	18.05827778

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

Spheroid Name	WKID	Semimajor Axis	Semiminor Axis	Inverse Flattening	Eccentricity squared (e2)
1_Ceres_2015	107972	470000.000	470000.000	0.0	0.0
4_Vesta_2015	107973	255000.000	255000.000	0.0	0.0
Adrastea_2000_IAU_IAG	107909	8200.000	8200.000	0.0	0.0
Aegaeon_2015	107867	330.000	330.000	0.0	0.0
Airy_1830	7001	6377563.396	6356256.909	299.32496460	0.00667054
Airy_Modified	7002	6377340.189	6356034.448	299.32496460	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
Anthe_2015	107868	500.000	500.000	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
Atlas_2015	107976	15100.000	15100.000	0.0	0.0
ATS_1977	7041	6378135.000	6356750.305	298.25700000	0.00669438
Australian	7003	6378160.000	6356774.719	298.25000000	0.00669454
Belinda_2000_IAU_IAG	107946	33000.000	33000.000	0.0	0.0
Bessel_1841	7004	6377397.155	6356078.963	299.15281280	0.00667437
Bessel_Modified	7005	6377492.018	6356173.509	299.15281280	0.00667437
Bessel_Namibia	7006	6377483.865	6356165.383	299.15281280	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
Callisto_2015	107862	2410300.000	2410300.000	0.0	0.0
Calypso_2000_IAU_IAG	107927	9500.000	9500.000	0.0	0.0
Calypso_2015	107977	9600.000	9600.000	0.0	0.0
Carme_2000_IAU_IAG	107913	15000.000	15000.000	0.0	0.0
CGCS2000	1024	6378137.000	6356752.314	298.25722210	0.00669438
Charon_2000_IAU_IAG	107970	593000.000	593000.000	0.0	0.0
Charon_2015	107999	606000.000	606000.000	0.0	0.0
Clarke_1858	7007	6378293.645	6356617.988	294.26067637	0.00678515
Clarke_1866	7008	6378206.400	6356583.800	294.97869820	0.00676866
Clarke_1866_Michigan	7009	6378450.047	6356826.620	294.97868468	0.00676866
Clarke_1880	7034	6378249.145	6356514.966	293.46630766	0.00680348
Clarke_1880_Arc	7013	6378249.145	6356514.966	293.46630766	0.00680348
Clarke_1880_Benoit	7010	6378300.789	6356566.435	293.46631554	0.00680348
Clarke_1880_IGN	7011	6378249.200	6356515.000	293.46602129	0.00680349
Clarke_1880_Intl_Ft	7055	6378306.370	6356571.996	293.46630766	0.00680348
Clarke_1880_RGS	7012	6378249.145	6356514.870	293.46500000	0.00680351
Clarke_1880_SGA	7014	6378249.200	6356514.997	293.46598000	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	300.00000000	0.00665556
Daphnis_2015	107978	3800.000	3800.000	0.0	0.0
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
Dione_2015	107979	561400.000	561400.000	0.0	0.0

Spheroid Name	WKID	Semimajor Axis	Semiminor Axis	Inverse Flattening	Eccentricity squared (e2)
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
Enceladus_2015	107980	252100.000	252100.000	0.0	0.0
Epimetheus_2000_IAU_IAG	107930	59500.000	59500.000	0.0	0.0
Epimetheus_2015	107981	58200.000	58200.000	0.0	0.0
Europa_2000_IAU_IAG	107915	1562090.000	1562090.000	0.0	0.0
Europa_2015	107863	1560800.000	1560800.000	0.0	0.0
Everest_1830	7042	6377299.360	6356098.359	300.80172550	0.00663785
Everest_1830_Modified	7018	6377304.063	6356103.039	300.80170000	0.00663785
Everest_Adjustment_1937	7015	6377276.345	6356075.413	300.80170000	0.00663785
Everest_Definition_1962	7044	6377301.243	6356100.230	300.80172550	0.00663785
Everest_Definition_1967	7016	6377298.556	6356097.550	300.80170000	0.00663785
Everest_Definition_1975	7045	6377299.151	6356098.145	300.80172550	0.00663785
Everest_Modified_1969	7056	6377295.664	6356094.668	300.80170000	0.00663785
Fischer_1960	107002	6378166.000	6356784.284	298.30000000	0.00669342
Fischer_1968	107003	6378150.000	6356768.337	298.30000000	0.00669342
Fischer_Modified	107004	6378155.000	6356773.320	298.30000000	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
Ganymede_2015	107864	2631200.000	2631200.000	0.0	0.0
GEM_10C	7031	6378137.000	6356752.314	298.25722356	0.00669438
GRS_1967	7036	6378160.000	6356774.516	298.24716743	0.00669461
GRS_1967_Truncated	7050	6378160.000	6356774.719	298.25000000	0.00669454
GRS_1980	7019	6378137.000	6356752.314	298.25722210	0.00669438
GRS_1980_Adj_WI_CP	107806	6378412.542	6357027.856	298.27010712	0.00669409
GSK-2011	1025	6378136.500	6356751.758	298.25641510	0.00669440
Helene_2000_IAU_IAG	107931	16000.000	16000.000	0.0	0.0
Helene_2015	107982	18000.000	18000.000	0.0	0.0
Helmert_1906	7020	6378200.000	6356818.170	298.30000000	0.00669342
Himalia_2000_IAU_IAG	107917	85000.000	85000.000	0.0	0.0
Hough_1960	7053	6378270.000	6356794.343	297.00000000	0.00672267
Hughes_1980	7058	6378273.000	6356889.449	298.27941112	0.00669388
Hyperion_2000_IAU_IAG	107932	133000.000	133000.000	0.0	0.0
Hyperion_2015	107983	135000.000	135000.000	0.0	0.0
Iapetus_2000_IAU_IAG	107933	718000.000	718000.000	0.0	0.0
Iapetus_2015	107984	745700.000	745700.000	0.0	0.0
Indonesian	7021	6378160.000	6356774.504	298.24700000	0.00669461
International_1924	7022	6378388.000	6356911.946	297.00000000	0.00672267
International_1967	7023	6378160.000	6356774.719	298.25000000	0.00669454
Io_2000_IAU_IAG	107918	1821460.000	1821460.000	0.0	0.0
Io_2015	107865	1821490.000	1821490.000	0.0	0.0
Janus_2000_IAU_IAG [1]	107934	88800.000	88800.000	0.0	0.0
Janus_2015	107985	89200.000	89200.000	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	15.41440276	0.12554010

[1] The semimajor axis and semiminor radii for Janus 2000 were corrected from 888000 m to 88800 m in versions 10.6.0 and Pro 2.1.

Spheroid Name	WKID	Semimajor Axis	Semiminor Axis	Inverse Flattening	Eccentricity squared (e2)
Krasovsky_1940	7024	6378245.000	6356863.019	298.30000000	0.00669342
Larissa_2000_IAU_IAG	107963	104000.000	89000.000	6.93333333	0.26765902
Larissa_2015	107997	96000.000	96000.000	0.0	0.0
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	192.04301075	0.01038722
Mars_2000_IAU_IAG	107905	3396190.000	3376200.000	169.89444722	0.01173737
Mars_2000_(Sphere)	107971	3396190.000	3396190.000	0.0	0.0
Mercury_2000_IAU_IAG	107900	2439700.000	2439700.000	0.0	0.0
Mercury_2015	107974	2439400.000	2439400.000	0.0	0.0
Methone_2015	107986	1450.000	1450.000	0.0	0.0
Metis_2000_IAU_IAG	107921	30000.000	20000.000	3.00000000	0.55555556
Metis_2015	107866	21500.000	21500.000	0.0	0.0
Mimas_2000_IAU_IAG [2]	107935	198630.000	198630.000	0.0	0.0
Mimas_2015	107987	198200.000	198200.000	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	58.54373522	0.03387072
Nereid_2000_IAU_IAG	107965	170000.000	170000.000	0.0	0.0
NWL_10D	7026	6378135.000	6356750.520	298.26000000	0.00669432
NWL_9D	7025	6378145.000	6356759.769	298.25000000	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	298.25722356	0.00669438
OSU_91A	7033	6378136.300	6356751.617	298.25722356	0.00669438
Pallene_2015	107988	2230.000	2230.000	0.0	0.0
Pan_2000_IAU_IAG	107936	10000.000	10000.000	0.0	0.0
Pan_2015	107989	14000.000	14000.000	0.0	0.0
Pandora_2000_IAU_IAG	107937	41900.000	41900.000	0.0	0.0
Pandora_2015	107990	40600.000	40600.000	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
Phobos_2015	107861	11080.000	11080.000	0.0	0.0
Phoebe_2000_IAU_IAG	107938	110000.000	110000.000	0.0	0.0
Phoebe_2015	107991	106500.000	106500.000	0.0	0.0
Plessis_1817	7027	6376523.000	6355862.933	308.64000000	0.00646954
Pluto_2000_IAU_IAG	107969	1195000.000	1195000.000	0.0	0.0
Pluto_2015	107998	1188300.000	1188300.000	0.0	0.0
Polydeuces_2015	107992	1300.000	1300.000	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
Prometheus_2015	107993	43100.000	43100.000	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

[2] The semimajor axis and semiminor radii for Mimas 2000 were corrected from 1986300 m to 198630 m in versions 10.6.0 and Pro 2.1.

Spheroid Name	WKID	Semimajor Axis	Semiminor Axis	Inverse Flattening	Eccentricity squared (e2)
PZ_1990	7054	6378136.000	6356751.362	298.25783930	0.00669437
Rhea_2000_IAU_IAG	107940	764000.000	764000.000	0.0	0.0
Rhea_2015	107994	763500.000	763500.000	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	10.20799458	0.18632823
S_GRS_1980_Adj_MN_Anoka	107700	6378418.941	6357033.310	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Becker	107701	6378586.581	6357200.388	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Beltrami_North	107702	6378505.809	6357119.887	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Beltrami_South	107703	6378544.823	6357158.770	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Benton	107704	6378490.569	6357104.698	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Big_Stone	107705	6378470.757	6357084.952	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Blue_Earth	107706	6378403.701	6357018.121	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Brown	107707	6378434.181	6357048.499	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Carlton	107708	6378454.907	6357069.155	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Carver	107709	6378400.653	6357015.083	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Cass_North	107710	6378567.378	6357181.249	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Cass_South	107711	6378546.957	6357160.897	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Chippewa	107712	6378476.853	6357091.028	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Chisago	107713	6378411.321	6357025.715	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Cook_North	107714	6378647.541	6357261.143	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Cook_South	107715	6378647.541	6357261.143	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Cottonwood	107716	6378514.953	6357129.000	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Crow_Wing	107717	6378546.957	6357160.897	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Dakota	107718	6378421.989	6357036.348	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Dodge	107719	6378481.425	6357095.584	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Douglas	107720	6378518.001	6357132.038	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Faribault	107721	6378521.049	6357135.075	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Fillmore	107722	6378464.661	6357078.877	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Freeborn	107723	6378521.049	6357135.075	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Goodhue	107724	6378434.181	6357048.499	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Grant	107725	6378518.001	6357132.038	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Hennepin	107726	6378418.941	6357033.310	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Houston	107727	6378436.619	6357050.929	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Isanti	107728	6378411.321	6357025.715	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Itasca_North	107729	6378574.389	6357188.237	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Itasca_South	107730	6378574.389	6357188.237	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Jackson	107731	6378521.049	6357135.075	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Kanabec	107732	6378472.281	6357086.471	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Kandiyohi	107733	6378498.189	6357112.292	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Kittson	107734	6378449.421	6357063.688	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Koochiching	107735	6378525.621	6357139.632	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Lac_Qui_Parle	107736	6378476.853	6357091.028	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Lake_of_the_Woods_North	107737	6378466.185	6357080.395	298.25722210	0.00669438

Spheroid Name	WKID	Semimajor Axis	Seminor Axis	Inverse Flattening	Eccentricity squared (e2)
S_GRS_1980_Adj_MN_Lake_of_the_Woods_South	107738	6378496.665	6357110.773	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Le_Sueur	107739	6378434.181	6357048.499	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Lincoln	107740	6378643.579	6357257.195	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Lyon	107741	6378559.758	6357173.655	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Mahnomen	107743	6378586.581	6357200.388	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Marshall	107744	6378441.801	6357056.093	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Martin	107745	6378521.049	6357135.075	298.25722210	0.00669438
S_GRS_1980_Adj_MN_McLeod	107742	6378414.369	6357028.753	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Meeker	107746	6378498.189	6357112.292	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Morrison	107747	6378502.761	6357116.849	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Mower	107748	6378521.049	6357135.075	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Murray	107749	6378617.061	6357230.766	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Nicollet	107750	6378403.701	6357018.121	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Nobles	107751	6378624.681	6357238.360	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Norman	107752	6378468.623	6357082.825	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Olmsted	107753	6378481.425	6357095.584	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Ottertail	107754	6378525.621	6357139.632	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Pennington	107755	6378445.763	6357060.042	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Pine	107756	6378472.281	6357086.471	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Pipestone	107757	6378670.401	6357283.927	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Polk	107758	6378445.763	6357060.042	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Pope	107759	6378502.761	6357116.849	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Ramsey	107760	6378418.941	6357033.310	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Red_Lake	107761	6378445.763	6357060.042	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Redwood	107762	6378438.753	6357053.055	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Renville	107763	6378414.369	6357028.753	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Rice	107764	6378434.181	6357048.499	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Rock	107765	6378624.681	6357238.360	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Roseau	107766	6378449.421	6357063.688	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Scott	107770	6378421.989	6357036.348	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Sherburne	107771	6378443.325	6357057.612	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Sibley	107772	6378414.369	6357028.753	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Stearns	107773	6378502.761	6357116.849	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Steele	107774	6378481.425	6357095.584	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Stevens	107775	6378502.761	6357116.849	298.25722210	0.00669438
S_GRS_1980_Adj_MN_St_Louis	107786	6378523.000	6357138.314	298.27527240	0.00669398
S_GRS_1980_Adj_MN_St_Louis_Central	107768	6378605.783	6357219.525	298.25722210	0.00669438
S_GRS_1980_Adj_MN_St_Louis_North	107767	6378543.909	6357157.859	298.25722210	0.00669438
S_GRS_1980_Adj_MN_St_Louis_South	107769	6378540.861	6357154.821	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Swift	107776	6378470.757	6357084.952	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Todd	107777	6378548.481	6357162.416	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Traverse	107778	6378463.746	6357077.965	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Wabasha	107779	6378426.561	6357040.904	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Wadena	107780	6378546.957	6357160.897	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Waseca	107781	6378481.425	6357095.584	298.25722210	0.00669438

Spheroid Name	WKID	Semimajor Axis	Semiminor Axis	Inverse Flattening	Eccentricity squared (e2)
S_GRS_1980_Adj_MN_Watonwan	107782	6378514.953	6357129.000	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Winona	107783	6378453.688	6357067.940	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Wright	107784	6378443.325	6357057.612	298.25722210	0.00669438
S_GRS_1980_Adj_MN_Yellow_ Medicine	107785	6378530.193	6357144.189	298.25722210	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_GRS_1980_Mean_Radius	107047	6371008.771	6371008.771	0.0	0.0
Sphere_International_1924_Authalic	7057	6371228.000	6371228.000	0.0	0.0
Struve_1860	7028	6378298.300	6356657.143	294.73000000	0.00677436
Sun_2015	107975	695700000.000	695700000.000	0.0	0.0
Telesto_2000_IAU_IAG	107941	11000.000	11000.000	0.0	0.0
Telesto_2015	107995	12400.000	12400.000	0.0	0.0
Tethys_2000_IAU_IAG	107942	529800.000	529800.000	0.0	0.0
Tethys_2015	107996	531000.000	531000.000	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	43.61604096	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	302.78000000	0.00659455
War_Office	7029	6378300.000	6356751.689	296.00000000	0.00674534
WGS_1966	107001	6378145.000	6356759.769	298.25000000	0.00669454
WGS_1972	7043	6378135.000	6356750.520	298.26000000	0.00669432
WGS_1984	7030	6378137.000	6356752.314	298.25722356	0.00669438
Xian_1980	7049	6378140.000	6356755.288	298.25700000	0.00669438
Zach_1812	1026	6376045.000	6355477.113	310.00000000	0.00644121

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 Christmas and Cocos - onshore	-43.700	96.760	-9.860	153.690
AHD_Tasmania	5712	Australia - Tasmania mainland onshore	-43.700	144.550	-40.240	148.440
AIOC95_Depth	5734	Azerbaijan - offshore and Sangachal	37.890	48.660	42.590	51.730
AIOC95_Height	5797	Azerbaijan - offshore and Sangachal	37.890	48.660	42.590	51.730

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Alboran_height	10353	Spain - Alboran	35.880	-3.100	36.000	-2.960
Alicante	5782	Spain and Gibraltar - onshore	35.950	-9.370	43.820	3.390
Antalya	5775	Turkey - onshore	35.810	25.620	42.150	44.830
ASVD02_height	6643	American Samoa - Tutuila island	-14.430	-170.880	-14.200	-170.510
ATRF2014	115876	Australia - GDA	-60.550	93.410	-8.470	173.340
Auckland	5759	New Zealand - North Island - Auckland vcrs	-37.670	174.000	-36.120	176.170
Australian_1966	115878	Australasia - Australia and PNG - AGD66	-47.200	109.230	-1.300	163.200
Australian_1984	115877	Australia - AGD84	-38.530	109.230	-9.370	153.610
Australian_Antarctic_1998	115703	Antarctica - Australian sector	-90.000	45.000	-60.000	160.000
AVWS_height	9458	Australia - GDA	-60.550	93.410	-8.470	173.340
Baltic	5705	Europe - FSU, Czechoslovakia - onshore	35.140	12.090	77.790	-169.570
Baltic_1957_depth	8358	Europe - Czechoslovakia	47.730	12.090	51.060	22.560
Baltic_1957_height	8357	Europe - Czechoslovakia	47.730	12.090	51.060	22.560
Baltic_1982	5786	Bulgaria - onshore	41.240	22.360	44.230	28.680
Baltic_1986_height	9650	Poland - onshore	49.000	14.140	54.890	24.150
Baltic_depth	5612	Europe - FSU, Czechoslovakia - onshore	35.140	12.090	77.790	-169.570
Bandar_Abbas	5752	Iran - onshore	25.020	44.030	39.780	63.340
BBT2000	105602	Europe - Brenner	46.450	11.040	47.330	11.910
Belfast	5732	UK - Northern Ireland - onshore	53.960	-8.180	55.360	-5.340
Bermuda_2000	115887	Bermuda	28.910	-68.830	35.730	-60.700
BGS2005	115806	Bulgaria	41.240	22.360	44.230	31.350
BGS2005_height	9669	Bulgaria - onshore	41.240	22.360	44.230	28.680
BH_ETRS89	115929	Bosnia and Herzegovina	42.560	15.740	45.270	19.620
BI_height	9451	Europe - British Isles - UK and Ireland onshore, UKCS	49.750	-10.850	61.010	2.010
Black_Sea	5735	Georgia - onshore	41.040	39.990	43.590	46.720
Black_Sea_Depth	5336	Georgia - onshore	41.040	39.990	43.590	46.720
Bluff	5760	New Zealand - South Island - Bluff vcrs	-46.710	168.010	-46.260	168.860
Bora_Bora_SAU_2001	5607	French Polynesia - Society Islands - Bora Bora	-16.620	-151.860	-16.390	-151.610
Cadastre_1997	115704	Mayotte - onshore	-13.050	44.980	-12.610	45.350

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Cagliari_1956_height	9722	Italy - Sardinia onshore	38.820	8.080	41.310	9.890
Cais_da_Figueirinha-Angra_do_Heroismo_height	6184	Portugal - Azores C - Terceira onshore	38.570	-27.440	38.860	-26.970
Cais_da_Madalena_height	6182	Portugal - Azores C - Pico onshore	38.320	-28.610	38.610	-27.980
Cais_da_Pontinha-Funchal_height	6178	Portugal - Madeira and Desertas islands onshore	32.350	-17.310	32.930	-16.400
Cais_das_Velas_height	6180	Portugal - Azores C - S Jorge onshore	38.480	-28.370	38.800	-27.710
Cais_da_Vila_do_Porto_height	6186	Portugal - Azores E onshore - Santa Maria and Formigas	36.870	-25.260	37.340	-24.720
Cais_da_Vila-Porto_Santo_height	6179	Portugal - Porto Santo island onshore	32.960	-16.440	33.150	-16.230
California_SRS_Epoch_2017.50_(NAD83)	115844	USA - California and borders of NV, AZ, OR and MX	32.250	-124.450	42.530	-113.600
Cascais	5780	Portugal - mainland - onshore	36.950	-9.560	42.160	-6.190
Caspian	5706	Asia - FSU - Caspian Sea	37.350	46.950	46.970	53.930
Caspian_height	5611	Asia - FSU - Caspian Sea	37.350	46.950	46.970	53.930
Catania_1965_height	9721	Italy - Sicily onshore	36.590	12.360	38.350	15.710
CBVD61_height	6132	Cayman Islands - Cayman Brac	19.660	-79.920	19.780	-79.690
CD_Norway_depth	9672	Norway, Svalbard and Jan Mayen - offshore	56.080	-13.630	84.730	38.010
CD_UK_Ireland_VORF08_depth	10151	Europe - Ireland and UK offshore	47.420	-16.100	63.890	3.400
Ceuta_2_height	9402	Spain - Ceuta	35.820	-5.400	35.970	-5.240
CGRS_1993	115888	Cyprus - onshore	34.590	32.200	35.740	34.650
CGVD_1928	5713	Canada - CGVD28	41.670	-141.010	69.800	-59.730
CGVD2013_CGG2013a_height	9245	Canada	38.210	-141.010	86.460	-40.730
CGVD2013_height	6647	Canada	38.210	-141.010	86.460	-40.730
CGVD2013a(1997)_height	20035	Canada	38.210	-141.010	86.460	-40.730
CGVD2013a(2002)_height	20034	Canada	38.210	-141.010	86.460	-40.73
CH1903+	115875	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
Chatham_Island	5771	New Zealand - Chatham Island onshore	-44.180	-176.920	-43.670	-176.200
China_Geodetic_Coordinate_System_2000	115705	China	16.700	73.620	53.560	134.770

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
CIGD11	115707	Cayman Islands	17.580	-83.600	20.680	-78.720
Constanta	5781	Romania - onshore	43.620	20.260	48.270	29.740
CR05	115708	Costa Rica	2.150	-90.450	11.770	-81.430
CR-SIRGAS	115849	Costa Rica	2.150	-90.450	11.770	-81.430
DACR52_height	8911	Costa Rica - onshore	7.980	-85.970	11.220	-82.530
Danger_1950	5792	St Pierre and Miquelon - onshore	46.690	-56.480	47.190	-56.070
Dansk_Normal_Nul	5733	Denmark - onshore	54.510	8.000	57.800	15.250
DB_REF	115709	Germany - onshore	47.270	5.860	55.090	15.040
DGN_1995	115710	Indonesia	-13.950	92.010	7.790	141.460
DHHN12_(height)	7699	Germany - onshore	47.270	5.860	55.090	15.040
DHHN2016_(height)	7837	Germany	47.270	3.340	55.920	15.040
DHHN85	5784	Germany - West Germany all states	47.270	5.860	55.090	13.840
DHHN92	5783	Germany - onshore	47.270	5.860	55.090	15.040
Douglas	5750	Isle of Man - onshore	54.020	-4.870	54.440	-4.270
DRUKREF_03	115711	Bhutan	26.700	88.740	28.330	92.130
Dunedin	5761	New Zealand - South Island - Dunedin vcrs	-46.400	167.730	-43.820	171.280
Dunedin_Bluff_1960_height	4458	New Zealand - South Island - Dunedin-Bluff vcrs	-46.730	166.370	-44.520	169.950
Durres	5777	Albania - onshore	39.640	19.220	42.670	21.060
DVR90	5799	Denmark - onshore	54.510	8.000	57.800	15.250
EGM2008_Geoid	3855	World	-90.000	-180.00	90.000	180.00
EGM84_Geoid	5798	World	-90.000	-180.00	90.000	180.00
EGM96_Geoid	5773	World	-90.000	-180.00	90.000	180.00
EGM96_Geoid_(ftIntl)	105797	World	-90.000	-180.000	90.000	180.000
EGM96_Geoid_(ftUS)	105798	World	-90.000	-180.000	90.000	180.000
EH2000_height	9663	Estonia - onshore	57.520	21.740	59.750	28.200
El_Hierro_height	9401	Spain - Canary Islands - El Hierro	27.580	-18.220	27.900	-17.830
EOMA_1980	5787	Hungary	45.740	16.110	48.580	22.900
Estonia_1997	115712	Estonia	57.520	20.370	60.000	28.200
ETRF2000	115829	Europe - ETRF by country	32.880	-16.100	84.730	40.180
ETRF2000-PL	115890	Poland	49.000	14.140	55.930	24.150
ETRF2005	115873	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF2014	115874	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF90	115822	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF91	115823	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF92	115824	Europe – ETRF by country	32.880	-16.100	84.730	40.180

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
ETRF93	115825	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF94	115826	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF96	115827	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF97	115828	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRF_1989	115889	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRS_1989	115701	Europe – ETRF by country	32.880	-16.100	84.730	40.180
ETRS89_DREF91_2016	115923	Germany	47.270	3.340	55.920	15.040
EUREF_FIN	115713	Finland	58.840	19.080	70.090	31.590
EVRF_2007	5621	Europe – EVRF2007	35.950	-9.560	71.240	31.590
EVRF_2007_PL_height	9651	Poland – onshore	49.000	14.140	54.890	24.150
EVRF_2019	9389	Europe – EVRF2019	35.950	-9.560	77.070	69.150
EVRF_2019_mean-tide	9390	Europe – EVRF2019	35.950	-9.560	77.070	69.150
EVRS_2000	5730	Europe – EVRF2000	35.950	-9.560	71.240	31.590
EVRF2000_Austria_height	9274	Austria	46.400	9.530	49.020	17.170
Fahud_Height_Datum_1993	5725	Oman – mainland	16.590	51.990	26.420	59.910
Fair_Isle	5741	UK – Fair Isle onshore	59.450	-1.760	59.600	-1.500
Famagusta_1960_(height)	7446	Cyprus – onshore	34.590	32.200	35.740	34.650
Fao	5751	Asia – Middle East – SE Iraq and SW Iran	29.060	44.300	33.500	51.060
Fao_1979	3886	Iraq – onshore	29.060	38.790	37.390	48.610
FCSVR10_Height	5597	Europe – Fehmarnbelt inner	54.420	11.170	54.760	11.510
FEH2010	115714	Europe – Fehmarnbelt outer	54.330	10.660	54.830	12.010
Flannan_Isles	5748	UK – Flannan Isles onshore	58.210	-7.750	58.350	-7.460
Formentera_height	10352	Spain - Balearic Islands - Formentera	38.590	1.310	38.860	1.650
Foula	5743	UK – Foula onshore	60.060	-2.210	60.200	-1.950
Fuerteventura_height	9396	Spain – Canary Islands – Fuerteventura	27.990	-14.580	28.810	-13.750
FVR09_height	5317	Faroe Islands – onshore	61.330	-7.490	62.410	-6.330
GCVD54_height	6130	Cayman Islands – Grand Cayman	19.210	-81.460	19.410	-81.040
GDA_1994	115715	Australia – GDA	-60.550	93.410	-8.470	173.340
GDA2020	115805	Australia – GDA	-60.550	93.410	-8.470	173.340
GDBD2009	115716	Brunei	4.010	112.370	6.310	115.370
GDM_2000	115717	Malaysia	0.850	98.020	7.810	119.610

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Genoa_height	5214	Italy – mainland and Sicily	36.590	6.620	47.100	18.580
GGD	115845	Georgia – onshore	41.040	39.990	43.590	46.720
GHA	5778	Austria	46.400	9.530	49.020	17.170
Gisborne	5762	New Zealand – North Island – Gisborne vcrs	-39.040	176.410	-37.490	178.630
GNTRANS2016_height	9927	Germany – onshore	47.270	5.860	55.090	15.040
GNTRANS_height	9923	Germany – onshore	47.270	5.860	55.090	15.040
Gran_Canaria_height	9397	Spain – Canary Islands – Gran Canaria	27.680	-15.880	28.230	-15.310
Greenland_1996	115718	Greenland	56.380	-75.000	87.020	7.990
GSK-2011	115813	Russia	39.870	18.920	85.190	-168.970
Guadeloupe_1951	5795	Guadeloupe – Grande-Terre and Basse-Terre – onshore	15.880	-61.850	16.550	-61.150
Guam_1963_height	6639	Guam – onshore	13.180	144.580	13.700	145.010
GUVD04_height	6644	Guam – onshore	13.180	144.580	13.700	145.010
GVR2000_height	8266	Greenland – 59°N to 84°N	59.000	-75.000	84.010	-10.000
GVR2016_height	8267	Greenland – 58°N to 85°N	58.000	-75.000	85.010	-6.990
Hartebeesthoek_1994	115719	Africa – South Africa, Lesotho and Eswatini	-50.320	13.330	-22.130	42.850
HAT_Height	5872	World	-90.000	-180.00	90.000	180.00
Ha_Tien_1960	5726	Asia – Cambodia and Vietnam – mainland	8.330	102.140	23.400	109.530
HHWLT_Height	5871	World	-90.000	-180.00	90.000	180.00
High_Water_Height	5874	World	-90.000	-180.00	90.000	180.00
Hon_Dau_1992	5727	Vietnam – mainland	8.330	102.140	23.400	109.530
Hong_Kong_Chart_Datum	5739	China – Hong Kong – offshore	22.130	113.760	22.580	114.510
Hong_Kong_Geodetic_CS	115839	China – Hong Kong	22.130	113.760	22.580	114.510
Hong_Kong_Principal_Datum	5738	China – Hong Kong – onshore	22.190	113.820	22.560	114.390
HKPD_depth	7976	China – Hong Kong – onshore	22.190	113.820	22.560	114.390
Horta_height	6181	Portugal – Azores C – Faial onshore	38.460	-28.900	38.700	-28.540
HS2-VRF_height	9303	UK - London to Birmingham and Crewe	51.450	-2.750	53.300	0.000
HTRS96	115891	Croatia	41.620	13.000	46.540	19.430
Huahine_SAU_2001	5605	French Polynesia - Society Islands - Huahine	-16.870	-151.110	-16.630	-150.890

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
HVRS_1971	5610	Croatia - onshore	42.340	13.430	46.540	19.430
Ibiza_height	9394	Spain - Balearic Islands - Ibiza	38.770	1.120	39.170	1.680
IG05(2012)_Intermediate_CRS	115723	Asia - Middle East - Israel and Palestine Territory onshore	29.450	34.170	33.280	35.690
IG05_Intermediate_CRS	115721	Asia - Middle East - Israel and Palestine Territory onshore	29.450	34.170	33.280	35.690
IGb00	115869	World	-90.000	-180.000	90.000	180.000
IGb08	115871	World	-90.000	-180.000	90.000	180.000
IGb14	115892	World	-90.000	-180.000	90.000	180.000
IGD05	115720	Israel	29.450	32.990	33.530	35.690
IGD05(2012)	115722	Israel	29.450	32.990	33.530	35.690
IGLD_1955	5608	North America - Great Lakes basin and St Lawrence Seaway	40.990	-93.170	52.220	-54.750
IGLD_1985	5609	North America - Great Lakes basin and St Lawrence Seaway	40.990	-93.170	52.220	-54.750
IGM_1995	115724	Italy - including San Marino and Vatican	34.760	5.930	47.100	18.990
IGN_1966	5601	French Polynesia - Society Islands - Tahiti	-17.930	-149.700	-17.440	-149.090
IGN_1987	5756	Martinique - onshore	14.350	-61.290	14.930	-60.760
IGN_1988	5757	Guadeloupe - Grande-Terre and Basse-Terre - onshore	15.880	-61.850	16.550	-61.150
IGN_1988_LS	5616	Guadeloupe - Les Saintes - onshore	15.800	-61.680	15.940	-61.520
IGN_1988_MG	5617	Guadeloupe - Marie-Galante - onshore	15.800	-61.390	16.050	-61.130
IGN_1988_SB	5619	Guadeloupe - St Barthelemy - onshore	17.820	-62.920	17.980	-62.730
IGN_1988_SM	5620	Guadeloupe - St Martin - onshore	18.010	-63.210	18.170	-62.960
IGN_1989	5758	Reunion - onshore	-21.420	55.160	-20.810	55.910
IGN_1992_LD	5618	Guadeloupe - La Desirade - onshore	16.260	-61.130	16.380	-60.970
IGN_2008_LD_height	9130	Guadeloupe - La Desirade - onshore	16.260	-61.130	16.380	-60.970
IGRS	115725	Iraq	29.060	38.790	37.390	48.750
IGS00	115868	World	-90.000	-180.000	90.000	180.000

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
IGS05	115870	World	-90.000	-180.000	90.000	180.000
IGS08	115893	World	-90.000	-180.000	90.000	180.000
IGS14	115837	World	-90.000	-180.00	90.000	180.00
IGS20	115922	World	-90.000	-180.000	90.000	180.000
IGS97	115867	World	-90.000	-180.000	90.000	180.000
INAGeoid2020_height	9471	Indonesia	-13.950	92.010	7.790	141.460
INAGeoid2020_v2_height	20036	Indonesia	-13.950	92.010	7.790	141.460
Instantaneous_Water_Level_Depth	5831	World	-90.000	-180.00	90.000	180.00
Instantaneous_Water_Level_Height	5829	World	-90.000	-180.00	90.000	180.00
IRENET95	115726	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
ISH2004_height	8089	Iceland - onshore	63.240	-24.660	66.620	-13.380
ISLW_Depth	5863	World	-90.000	-180.00	90.000	180.00
ISN_1993	115727	Iceland	59.960	-30.870	69.590	-5.550
ISN_2004	115728	Iceland	59.960	-30.870	69.590	-5.550
ISN2016	115838	Iceland	59.960	-30.870	69.590	-5.550
ITRF_1988	115729	World	-90.000	-180.000	90.000	180.000
ITRF_1989	115730	World	-90.000	-180.000	90.000	180.000
ITRF_1990	115731	World	-90.000	-180.000	90.000	180.000
ITRF_1991	115732	World	-90.000	-180.000	90.000	180.000
ITRF_1992	115733	World	-90.000	-180.000	90.000	180.000
ITRF_1993	115734	World	-90.000	-180.000	90.000	180.000
ITRF_1994	115879	World	-90.000	-180.000	90.000	180.000
ITRF_1996	115735	World	-90.000	-180.000	90.000	180.000
ITRF_1997	115736	World	-90.000	-180.000	90.000	180.000
ITRF_2000	115737	World	-90.000	-180.000	90.000	180.000
ITRF_2005	115738	World	-90.000	-180.000	90.000	180.000
ITRF_2008	115803	World	-90.000	-180.000	90.000	180.000
ITRF2014	115810	World	-90.000	-180.000	90.000	180.000
ITRF2020	115883	World	-90.000	-180.000	90.000	180.000
JAD_2001	115739	Jamaica	14.080	-80.600	19.360	-74.510
Jamestown_1971_height	7888	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
Japanese_Standard_Levelling_Datum_1969	5723	Japan - onshore mainland	30.940	129.300	45.540	145.870
JGD_2000	115740	Japan	17.090	122.380	46.050	157.650
JGD2000_vertical_height	6694	Japan - onshore mainland	30.940	129.300	45.540	145.870
JGD_2011	115741	Japan	17.090	122.380	46.050	157.650
JGD2011_vertical_height	6695	Japan - onshore mainland	30.940	129.300	45.540	145.870
JSLD72_height	6693	Japan - onshore - Hokkaido	41.340	139.700	45.540	145.870
KGD2002	115742	Korea, Republic of (South Korea)	28.600	122.710	40.270	134.280

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Kiunga_(height)	7652	Papua New Guinea - onshore south of 5°S and west of 144°E	-9.350	140.850	-5.000	144.010
KOC_Construction_Datum	5790	Kuwait - onshore	28.530	46.540	30.090	48.480
KOC_WD_depth_ft	5614	Kuwait - onshore	28.530	46.540	30.090	48.480
KOC_WD_height	7979	Kuwait - onshore	28.530	46.540	30.090	48.480
KOC_Well_Datum	5789	Kuwait - onshore	28.530	46.540	30.090	48.480
KOSOVAREF01	115872	Kosovo	41.850	19.970	43.250	21.800
KSA-GRF17	115894	Saudi Arabia	16.290	34.440	32.160	55.670
KSA-VRF14_height	9335	Saudi Arabia - onshore	16.370	34.510	32.160	55.670
Kumul_34_(height)	7651	Papua New Guinea - PFTB	-8.280	142.240	-5.590	144.750
Kuwait_PWD	5788	Kuwait - onshore	28.530	46.540	30.090	48.480
KVD1964_Height	5193	Korea, Republic of (South Korea) - onshore	33.140	124.530	38.640	131.010
Kyrg-06	115895	Kyrgyzstan	39.190	69.240	43.220	80.290
La_Gomera_height	9399	Spain - Canary Islands - La Gomera	27.950	-17.390	28.260	-17.030
Lagos_1955	5796	Nigeria - onshore	4.220	2.690	13.900	14.650
Lanzarote_height	9395	Spain - Canary Islands - Lanzarote	28.780	-13.950	29.470	-13.370
Lao_1993	115896	Laos	13.920	100.090	22.500	107.640
Lao_1997	115743	Laos	13.920	100.090	22.500	107.640
La_Palma_height	9400	Spain - Canary Islands - La Palma	28.400	-18.060	28.900	-17.660
LAS07_height	9666	Lithuania - onshore	53.890	20.860	56.450	26.820
LAT_Depth	5861	World	-90.000	-180.00	90.000	180.00
LAT_NL_depth	9287	Netherlands - offshore	51.450	2.530	55.770	6.410
Latvia_2000_(height)	7700	Latvia - onshore	55.670	20.870	58.090	28.240
LCVD61_height	6131	Cayman Islands - Little Cayman	19.630	-80.140	19.740	-79.930
Lerwick	5742	UK - Shetland Islands onshore	59.830	-1.780	60.870	-0.670
LGD2006	115744	Libya	19.490	9.310	35.230	26.210
LHN95	5729	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
LKS_1992	115745	Latvia	55.670	19.060	58.090	28.240
LKS_1994	115746	Lithuania	53.890	19.020	56.450	26.820
LKS-2020	115925	Latvia	55.670	19.060	58.090	28.240
LLWLT_Depth	5862	World	-90.000	-180.00	90.000	180.00
LN_1902	5728	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
Low_Water_Depth	5873	World	-90.000	-180.00	90.000	180.00

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
LTF2004(G)	115897	Europe - Lyon-Turin	44.870	4.650	45.890	7.880
LUREF	115886	Luxembourg	49.440	5.730	50.190	6.530
Lyttelton [3]	5763	New Zealand - South Island - Lyttelton vcrs	-44.920	168.950	-41.600	173.770
MACAO_2008	115747	China - Macao	22.060	113.520	22.230	113.680
Macao_height	8434	China - Macao	22.060	113.520	22.230	113.680
MAGNA	115748	Colombia	-4.230	-84.770	15.510	-66.870
MAGNA-SIRGAS_2018	115930	Colombia	-4.230	-84.770	15.510	-66.870
Mallorca_height	9392	Spain - Balearic Islands - Mallorca	39.070	2.230	40.020	3.550
Malin_Head	5731	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
Maputo	5722	Mozambique - onshore	-26.870	30.210	-10.420	40.900
MARCARIO_SOLIS	115749	Panama	5.000	-84.320	12.510	-77.040
MARGEN	115750	Bolivia	-22.910	-69.660	-9.670	-57.520
Martinique_1955	5794	Martinique - onshore	14.350	-61.290	14.930	-60.760
Maupiti_SAU_2001	5604	French Polynesia - Society Islands - Maupiti	-16.570	-152.390	-16.340	-152.140
Mauritania_1999	115898	Mauritania	14.720	-20.040	27.300	-4.800
Mayotte_1950	5793	Mayotte - onshore	-13.050	44.980	-12.610	45.350
Melilla_height	10354	Spain - Melilla	35.260	-2.980	35.380	-2.880
Menorca_height	9393	Spain - Balearic Islands - Menorca	39.750	3.730	40.150	4.390
Mexican_Datum_of_1993	115910	Mexico	12.100	-122.190	32.720	-84.640
Mexico_ITRF2008	115751	Mexico	12.100	-122.190	32.720	-84.640
MGI	115921	Europe - Austria and former Yugoslavia onshore	40.850	9.530	49.020	23.040
MHHW_Height	5869	World	-90.000	-180.00	90.000	180.00
MHW_Height	5868	World	-90.000	-180.00	90.000	180.00
MHWS_Height	5870	World	-90.000	-180.00	90.000	180.00
MLLW_Depth	5866	World	-90.000	-180.00	90.000	180.00
MLLWS_Depth	5864	World	-90.000	-180.00	90.000	180.00
MLW_Depth	5867	World	-90.000	-180.00	90.000	180.00
MLWS_Depth	5865	World	-90.000	-180.00	90.000	180.00
MOLDREF99	115752	Moldova	45.440	26.630	48.470	30.130
MONREF_1997	115753	Mongolia	41.580	87.760	52.150	119.940
Moorea_SAU_1981	5602	French Polynesia - Society Islands - Moorea	-17.630	-150.000	-17.410	-149.730
Moturiki	5764	New Zealand - North Island - Moturiki vcrs	-40.590	174.570	-37.520	177.260
Moznet	115754	Mozambique	-27.710	30.210	-10.090	43.030

[3] The name Lyttelton was corrected from Lyttleton at ArcGIS versions 10.6.0 and Pro 2.1.

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
MSL_Depth	5715	World	-90.000	-180.00	90.000	180.00
MSL_depth_(ftIntl)	8051	World	-90.000	-180.000	90.000	180.000
MSL_depth_(ftUS)	8053	USA	15.560	167.650	74.710	-65.690
MSL_Hawaii_height_(ftUS)	105796	USA - Hawaii - onshore	18.870	-160.300	22.290	-154.740
MSL_Hawaii_height_(m)	105795	USA - Hawaii - onshore	18.870	-160.300	22.290	-154.740
MSL_Height	5714	World	-90.000	-180.00	90.000	180.00
MSL_height_(ftIntl)	8050	World	-90.000	-180.000	90.000	180.000
MSL_height_(ftUS)	8052	USA	15.560	167.650	74.710	-65.690
MSL_NL_depth	9288	Netherlands - offshore	51.450	2.530	55.770	6.410
MSL_UK_Ireland_VORF08_depth	10150	Europe - Ireland and UK offshore	47.420	-16.100	63.890	3.400
MTRF-2000	115843	Saudi Arabia	16.290	34.440	32.160	55.670
MVGC_height	8841	Saudi Arabia - onshore	16.370	34.510	32.160	55.670
NTRF-2000	115843	Saudi Arabia	15.610	34.440	32.160	55.670
N2000_height	3900	Finland - onshore	59.750	19.240	70.090	31.590
N43_height	8675	Finland - mainland south of 66°N	59.750	20.950	66.730	31.590
N60	5717	Finland - onshore	59.750	19.240	70.090	31.590
NAD_1983	115702	North America - NAD83	14.920	167.650	86.450	-47.730
NAD_1983_2011	115755	USA - CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
NAD_1983_CORS96	115756	USA - CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
NAD_1983_(FBN)	115840	USA - FBN	-14.590	144.580	49.380	-64.510
NAD_1983_(HARN_Corrected)	115841	Caribbean – PR and US VI - onshore	17.620	-67.970	18.570	-64.510
NAD_1983_MA11	115759	Pacific - US interests Mariana plate	1.640	129.480	23.900	149.550
NAD_1983_MARP00	115760	Pacific - US interests Mariana plate	1.640	129.480	23.900	149.550
NAD_1983_NSRS2007	115761	USA - CONUS and Alaska; PRVI	14.920	167.650	74.710	-63.880
NAD_1983_PA11	115762	NAD83 PA11 - US interests Pacific plate	-17.560	151.300	31.800	-151.270
NAD_1983_PACP00	115763	Pacific - US interests Pacific plate	-17.560	157.470	31.800	-151.270
NAD83(CSRS96)	115830	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v2	115831	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v3	115832	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v4	115833	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v5	115834	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v6	115835	Canada	38.210	-141.010	86.460	-40.730
NAD83(CSRS)v7	115836	Canada	38.210	-141.010	86.460	-40.730

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
NAD83(CSRS)v8	115931	Canada	38.210	-141.010	86.460	-40.730
NAP	5709	Netherlands	50.750	2.530	55.770	7.220
Napier	5765	New Zealand - North Island - Hawkes Bay mc Napier vcrs	-40.570	175.800	-38.870	178.070
NAVD_1988	5703	North America - Mexico and USA - onshore	14.510	172.420	71.400	-66.910
NAVD88_depth	6357	North America - Mexico and USA - onshore	14.510	172.420	71.400	-66.910
NAVD88_depth_(ftUS)	6358	USA - CONUS and Alaska - onshore	24.410	-168.260	71.400	-66.910
NAVD88_height_(ftIntl)	8228	USA - onshore - AZ MI MT ND OR SC	31.330	-124.600	49.010	-78.520
NAVD88_height_(ftUS)	6360	USA - CONUS and Alaska - onshore	24.410	-168.260	71.400	-66.910
Nelson	5766	New Zealand - South Island - Nelson vcrs	-42.440	171.820	-40.440	174.460
Nepal_Nagarkot	115764	Nepal	26.340	80.060	30.430	88.210
Newlyn	5701	UK - Great Britain mainland onshore	49.930	-7.060	58.710	1.800
Newlyn_Orkney_Isles	5740	UK - Orkney Islands onshore	58.720	-3.480	59.410	-2.340
NGA_2022_height	10190	Algeria - onshore	18.970	-8.670	37.140	11.990
NGC_1948	5791	France - Corsica onshore	41.310	8.500	43.070	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	43.070	9.630
NGF_Lallemand	5719	France - mainland onshore	42.330	-4.870	51.140	8.230
NGG_1977	5755	French Guiana - onshore	2.110	-54.610	5.810	-51.610
NG95_height	5774	Luxembourg	49.440	5.730	50.190	6.530
NGNC	5753	New Caledonia - Grande Terre	-22.450	163.920	-20.030	167.090
NGNC08_height	9351	New Caledonia - Belep, Grande Terre, Ile des Pins, Loyalty Islands	-22.730	163.540	-19.500	168.190
NGPF	5600	French Polynesia - Society Islands - main islands	-17.930	-152.390	-16.170	-149.090
NGVD_1929	5702	USA - CONUS - onshore	24.410	-124.790	49.380	-66.910

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
NGVD29_depth	6359	USA - CONUS - onshore	24.410	-124.790	49.380	-66.910
NGVD_1929_height_(m)	7968	USA - CONUS - onshore	24.410	-124.790	49.380	-66.910
NMVD03_height	6640	Northern Mariana Islands - Rota, Saipan and Tinian	14.060	145.060	15.350	145.890
NN2000_height	5941	Norway - onshore	57.900	4.390	71.240	31.320
NN54	5776	Norway - onshore	57.900	4.390	71.240	31.320
North_American_1983_CSRS	115757	Canada	38.210	-141.010	86.460	-40.730
North_American_1983_HARN	115758	USA - HARN	-14.590	144.580	71.400	-64.510
North_Rona	5745	UK - North Rona onshore	59.070	-5.920	59.190	-5.730
NVD_1992_height	9681	Bangladesh - onshore	20.520	88.010	26.640	92.670
NZGD_2000	115765	New Zealand	-55.950	160.600	-25.880	-171.200
NZVD2009_height	4440	New Zealand	-55.950	160.600	-25.880	-171.200
NZVD2016_height	7839	New Zealand	-55.950	160.600	-25.880	-171.200
ODN_(Offshore)_(height)	7707	UK - offshore 49~45'N to 61~N, 9~W to 2~E	49.750	-9.010	61.010	2.010
One_Tree_Point	5767	New Zealand - North Island - One Tree vcrs	-36.410	172.610	-34.360	174.830
ONGD14	115846	Oman	14.330	51.990	26.740	63.380
ONGD17	115847	Oman	14.330	51.990	26.740	63.380
Oostende	5710	Belgium - onshore	49.500	2.500	51.510	6.400
Pago_Pago_2020_height	9675	American Samoa - Tutuila island	-14.430	-170.880	-14.200	-170.510
PDO_Height_Datum_1993	5724	Oman - onshore	16.590	51.990	26.580	59.910
Peru96	115766	Peru	-21.050	-84.680	-0.030	-68.670
Piraeus	5716	Greece - onshore	34.880	19.570	41.750	28.300
PNG94	115767	Papua New Guinea	-14.750	139.200	2.580	162.810
PNG08_(height)	7447	Papua New Guinea - 0°N to 12°S and 140°E to 158°E	-12.000	140.000	0.010	158.010
POM08_height	7841	Papua New Guinea - onshore - Central and Gulf province east of 144°E	-10.420	144.400	-6.670	149.670
POM96_height	7832	Papua New Guinea - onshore - Central and Gulf province east of 144°E	-10.420	144.400	-6.670	149.670
Ponta_Delgada_height	6187	Portugal - Azores E - S Miguel onshore	37.650	-25.920	37.960	-25.080
Poolbeg	5754	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
Poolbeg_height_(m)	7962	Europe - Ireland (Republic and Ulster) - onshore	51.390	-10.560	55.430	-5.340
POSGAR	115768	Argentina	-58.410	-73.590	-21.780	-52.630
POSGAR_1994	115769	Argentina	-58.410	-73.590	-21.780	-52.630
POSGAR_1998	115770	Argentina	-58.410	-73.590	-21.780	-52.630
POSGAR_2007	115880	Argentina	-58.410	-73.590	-21.780	-52.630
PRS_1992	115771	Philippines	3.000	116.040	22.180	129.950
PRVD02_height	6641	Puerto Rico - onshore	17.870	-67.970	18.570	-65.190
PTRA08	115772	Portugal - Azores and Madeira	29.240	-35.580	43.070	-12.480
PZ_1990	115773	World	-90.000	-180.00	90.000	180.00
PZ-90.02	115815	World	-90.000	-180.00	90.000	180.00
PZ-90.11	115814	World	-90.000	-180.00	90.000	180.00
Raiatea_SAU_2001	5603	French Polynesia - Society Islands - Raiatea	-16.960	-151.550	-16.680	-151.300
Ras_Ghumays_height	5843	UAE - Abu Dhabi - onshore	22.630	51.560	24.950	56.030
RDN2008	115774	Italy - including San Marino and Vatican	34.760	5.930	47.100	18.990
REDGEOMIN	115899	Chile	-59.870	-113.210	-17.500	-65.720
REDNAP_height	105603	Spain - mainland and Balearic Islands onshore	35.260	-9.370	43.820	4.390
REGCAN95	115775	Spain - Canary Islands	24.600	-21.930	32.760	-11.750
REGVEN	115776	Venezuela	0.640	-73.380	16.750	-58.950
RGAF09	115777	Caribbean - French Antilles	14.080	-63.660	18.530	-57.520
RGAF09_(lon-lat)	115916	Caribbean - French Antilles	14.080	-63.660	18.530	-57.520
RGF_1993	115778	France	41.150	-9.860	51.560	10.380
RGF93_(lon-lat)	115915	France	41.150	-9.860	51.560	10.380
RGF93_v2	115881	France	41.150	-9.860	51.560	10.380
RGF93_v2_(lon-lat)	115918	France	41.150	-9.860	51.560	10.380
RGF93_v2b	115882	France	41.150	-9.860	51.560	10.380
RGF93_v2b_(lon-lat)	115919	France	41.150	-9.860	51.560	10.380
RGFG_1995	115779	French Guiana	2.110	-54.610	8.880	-49.450
RGFG95_(lon-lat)	115914	French Guiana	2.110	-54.610	8.880	-49.450
RGM_2004	115780	Mayotte	-14.490	43.680	-11.330	46.700
RGM04_(lon-lat)	115913	Mayotte	-14.490	43.680	-11.330	46.700
RGNC_1991	115781	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC_1991-93	115782	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC_1991-93_(lon-lat)	115926	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC15	115927	New Caledonia	-26.450	156.250	-14.830	174.280
RGNC15_(lon-lat)	115928	New Caledonia	-26.450	156.250	-14.830	174.280

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
RGPF	115783	French Polynesia	-31.240	-158.130	-4.520	-131.970
RGR_1992	115784	Reunion	-24.720	51.830	-18.280	58.240
RGR92_(lon-lat)	115912	Reunion	-24.720	51.830	-18.280	58.240
RGRDC_2005	115785	Congo DR (Zaire) - south	-13.460	11.790	-3.410	29.810
RGSH2020	115924	Algeria	18.970	-8.670	38.800	11.990
RGSPM_2006	115786	St Pierre and Miquelon	43.410	-57.100	47.370	-55.900
RGSPM06_(lon-lat)	115911	St Pierre and Miquelon	43.410	-57.100	47.370	-55.900
RGTAAF07	115900	French Southern and Antarctic Territories	-67.130	37.980	-20.910	142.000
RGTAAF07_(lon-lat)	115901	French Southern and Antarctic Territories	-67.130	37.980	-20.910	142.000
RGWF96	115850	Wallis and Futuna	-15.940	179.490	-9.840	-174.270
RGWF96_(lon-lat)	115917	Wallis and Futuna	-15.940	179.490	-9.840	-174.270
RH1900	5615	Sweden - onshore	55.280	10.930	69.070	24.170
RH2000	5613	Sweden - onshore	55.280	10.930	69.070	24.170
RH70	5718	Sweden - onshore	55.280	10.930	69.070	24.170
RRAF_1991	115787	Caribbean - French Antilles	14.080	-63.660	18.530	-57.520
RSAO13	115902	Angola	-18.020	8.200	-4.380	24.090
RSRGD2000	115788	Antarctica - Ross Sea Region	-90.000	144.990	-59.990	-144.990
Santa_Cruz_da_Graciosa_height	6183	Portugal - Azores C - Graciosa onshore	38.970	-28.130	39.140	-27.880
Santa_Cruz_das_Flores_height	6185	Portugal - Azores W - onshore	39.300	-31.340	39.770	-31.020
SA_LLD_height	9279	South Africa - onshore	-34.880	16.450	-22.130	32.950
SHD_height	6916	Singapore	1.130	103.590	1.470	104.070
SHGD2015	115811	St Helena – St Helena Island	-16.080	-5.850	-15.850	-5.590
SHVD2015_height	7890	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
SIRGAS_2000	115789	Latin America - SIRGAS 2000 by country	-59.870	-122.190	32.720	-25.280
SIRGAS-Chile_2002	115790	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2010	115903	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2013	115904	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-Chile_2016	115905	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS_Chile_2021_height	115884	Chile	-59.870	-113.210	-17.500	-65.720
SIRGAS-CON_DGF00P01	115851	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
SIRGAS-CON_DGF01P01	115852	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF01P02	115853	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF02P01	115854	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF04P01	115855	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF05P01	115856	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF06P01	115857	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF07P01	115858	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_DGF08P01	115859	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR09P01	115860	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR11P01	115861	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR11P01	115862	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR13P01	115863	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR14P01	115864	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR15P01	115865	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS-CON_SIR17P01	115866	Latin America - Central America and South America	-59.870	-122.190	32.720	-25.280
SIRGAS_ES2007.8	115791	El Salvador	9.970	-91.430	14.440	-87.650
SIRGAS-ROU98	115792	Uruguay	-37.770	-58.490	-30.090	-50.010
S_JTSK/05	115796	Czechia	48.580	12.090	51.060	18.860
S_JTSK/05_Ferro	115797	Czechia	48.580	12.090	51.060	18.860

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
S-JTSK_[JTSK03]	115848	Slovakia	47.730	16.840	49.610	22.560
SLD99	115793	Sri Lanka - onshore	5.860	79.640	9.880	81.950
Slovenia_1996	115794	Slovenia	45.420	13.380	46.880	16.610
SLVD_height	5237	Sri Lanka - onshore	5.860	79.640	9.880	81.950
SNN76	5785	Germany - East Germany all states	50.200	9.920	54.740	15.040
SRB_ETRS89	115842	Serbia	42.230	18.810	46.190	23.010
SRB_VRS12_height	8691	Serbia	42.230	18.810	46.190	23.010
SREF98	115795	Serbia	42.230	18.810	46.190	23.010
SRGI2013	115906	Indonesia	-13.950	92.010	7.790	141.460
SRVN16_height	9255	Argentina - onshore	-55.110	-73.590	-21.780	-53.650
Stewart_Island	5772	New Zealand - Stewart Island	-47.330	167.290	-46.630	168.340
St_Helena_Tritan	115812	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
St_Helena_Tritan_2011_height	7889	St Helena - St Helena Island	-16.080	-5.850	-15.850	-5.590
St_Kilda	5747	UK - St. Kilda onshore	57.740	-8.740	57.930	-8.410
St_Marys	5749	UK - Scilly Isles onshore	49.860	-6.410	49.990	-6.230
Stornoway	5746	UK - Outer Hebrides onshore	56.760	-7.720	58.540	-6.100
Sule_Skerry	5744	UK - Sule Skerry onshore	59.050	-4.500	59.130	-4.300
SVD2006_height	20000	Arctic - 81°10'N to 76°10'N, 4°W to 38°E	76.160	-3.350	81.170	38.010
SVS2000	5779	Slovenia – onshore	45.420	13.380	46.880	16.610
SVS2010	8690	Slovenia – onshore	45.420	13.380	46.880	16.610
SWEREF99	115798	Sweden	54.960	10.030	69.070	24.170
Swiss_TRF_1995	115706	Europe - Liechtenstein and Switzerland	45.820	5.960	47.810	10.490
Tahaa_SAU_2001	5606	French Polynesia - Society Islands - Tahaa	-16.720	-151.630	-16.500	-151.360
Taranaki	5769	New Zealand - North Island - Taranaki vcrs	-39.920	173.680	-38.410	174.950
Tararu	5768	New Zealand - North Island - Tararu vcrs	-37.210	175.440	-36.780	175.990
Tenerife_height	9398	Spain - Canary Islands - Tenerife	27.930	-16.960	28.630	-16.080
TGD2005	115799	Tonga	-25.680	-179.080	-14.140	-171.280
Trieste_height	5195	Europe - former Yugoslavia onshore	40.850	13.380	46.880	23.040
TUREF	115804	Turkey	34.420	25.620	43.450	44.830
Tutuila_1962_height	6638	American Samoa - Tutuila island	-14.430	-170.880	-14.200	-170.510
TWD_1997	115800	Taiwan	17.360	114.320	26.960	123.610

VCS Name	WKID	Area of Use	Minimum Latitude	Minimum Longitude	Maximum Latitude	Maximum Longitude
TWVD_2001_height	8904	Taiwan - onshore - mainland	21.870	119.990	25.340	122.060
Ukraine_2000	115801	Ukraine	43.180	22.150	52.380	40.180
Unknown_height_system_ (Intl_Feet)	115809	World	-90.000	-180.000	90.000	180.000
Unknown_height_system_ (meters)	115807	World	-90.000	-180.000	90.000	180.000
Unknown_height_system_ (US_survey_feet)	115808	World	-90.000	-180.000	90.000	180.000
Vienna_height	8881	Austria - Vienna	48.120	16.180	48.340	16.590
VIVD09_height	6642	Virgin Islands, US - onshore	17.620	-65.090	18.440	-64.510
Wellington	5770	New Zealand - North Island - Wellington vcrs	-41.670	174.520	-40.120	176.550
WGS_1966	115907	World	-90.000	-180.000	90.000	180.000
WGS_1972	115908	World	-90.000	-180.000	90.000	180.000
WGS_1972_BE	115909	World	-90.000	-180.000	90.000	180.000
WGS_1984	115700	World	-90.000	-180.00	90.000	180.00
WGS_1984_Geoid	105700	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G1150)	115819	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G1674)	115818	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G1762)	115817	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G2139)_height	115885	World	-90.000	-180.000	90.000	180.000
WGS_1984_(G730)	115821	World	-90.000	-180.00	90.000	180.00
WGS_1984_(G873)	115820	World	-90.000	-180.00	90.000	180.00
WGS_1984_(Transit)	115816	World	-90.000	-180.00	90.000	180.00
Yellow_Sea_1956	5736	China - onshore	18.110	73.620	53.560	134.770
Yellow_Sea_1985	5737	China - onshore	18.110	73.620	53.560	134.770
Yemen_NGN_1996	115802	Yemen	8.950	41.080	19.000	57.960
ZH_Portugal_depth	10349	Portugal - offshore	29.240	-35.580	43.070	-7.250

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
Alboran_height	10353	Gravity-related	Positive up
Alicante	5782	Gravity-related	Positive up
Antalya	5775	Gravity-related	Positive up
ASVD02_height	6643	Gravity-related	Positive up
ATRF2014	115876	Ellipsoidal	Positive up
Auckland	5759	Gravity-related	Positive up
AVWS_height	9458	Gravity-related	Positive up
Australian_1966	115878	Ellipsoidal	Positive up
Australian_1984	115877	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
Australian_Antarctic_1998	115703	Ellipsoidal	Positive up
Baltic	5705	Gravity-related	Positive up
Baltic_1957_depth	8358	Gravity-related	Positive down
Baltic_1957_height	8357	Gravity-related	Positive up
Baltic_1982	5786	Gravity-related	Positive up
Baltic_1986_height	9650	Gravity-related	Positive up
Baltic_depth	5612	Gravity-related	Positive down
Bandar_Abbas	5752	Gravity-related	Positive up
BBT2000	105602	Ellipsoidal	Positive up
Belfast	5732	Gravity-related	Positive up
Bermuda_2000	115887	Ellipsoidal	Positive up
BGS2005	115806	Ellipsoidal	Positive up
BGS2005_height	9669	Gravity-related	Positive up
BH_ETRS89	115929	Ellipsoidal	Positive up
BI_height	9451	Gravity-related	Positive up
Black_Sea	5735	Gravity-related	Positive up
Black_Sea_Depth	5336	Gravity-related	Positive down
Bluff	5760	Gravity-related	Positive up
Bora_Bora_SAU_2001	5607	Gravity-related	Positive up
Cadastre_1997	115704	Ellipsoidal	Positive up
Cagliari_1956_height	9722	Gravity-related	Positive up
Cais_da_Figueirinha-Angra_do_Heroismo_height	6184	Gravity-related	Positive up
Cais_da_Madalena_height	6182	Gravity-related	Positive up
Cais_da_Pontinha-Funchal_height	6178	Gravity-related	Positive up
Cais_das_Velas_height	6180	Gravity-related	Positive up
Cais_da_Vila_do_Porto_height	6186	Gravity-related	Positive up
Cais_da_Vila-Porto_Santo_height	6179	Gravity-related	Positive up
California_SRS_Epoch_2017.50_(NAD83)	115844	Ellipsoidal	Positive up
Cascais	5780	Gravity-related	Positive up
Caspian	5706	Gravity-related	Positive down
Caspian_height	5611	Gravity-related	Positive up
Catania_1965_height	9721	Gravity-related	Positive up
CBVD61_height	6132	Gravity-related	Positive up
CD_Norway_depth	9672	Gravity-related	Positive down
CD_UK_Ireland_VORF08_depth	10151	Gravity-related	Positive down
Ceuta_2_height	9402	Gravity-related	Positive up
CGRS_1993	115888	Ellipsoidal	Positive up
CGVD_1928	5713	Gravity-related	Positive up
CGVD2013_CGG2013a_height	9245	Gravity-related	Positive up
CGVD2013_height	6647	Gravity-related	Positive up
CGVD2013a(1997)_height	20035	Gravity-related	Positive up
CGVD2013a(2002)_height	20034	Gravity-related	Positive up
CH1903+	115875	Ellipsoidal	Positive up
Chatham_Island	5771	Gravity-related	Positive up
China_Geodetic_Coordinate_System_2000	115705	Ellipsoidal	Positive up
CIGD11	115707	Ellipsoidal	Positive up
Constanta	5781	Gravity-related	Positive up

VCS Name	WKID	Model	Positive Direction
CR05	115708	Ellipsoidal	Positive up
CR-SIRGAS	115849	Ellipsoidal	Positive up
DACR52_height	8911	Gravity-related	Positive up
Danger_1950	5792	Gravity-related	Positive up
Dansk_Normal_Nul	5733	Gravity-related	Positive up
DB_REF	115709	Ellipsoidal	Positive up
DGN_1995	115710	Ellipsoidal	Positive up
DHHN12_(height)	7699	Gravity-related	Positive up
DHHN2016_(height)	7837	Gravity-related	Positive up
DHHN85	5784	Gravity-related	Positive up
DHHN92	5783	Gravity-related	Positive up
Douglas	5750	Gravity-related	Positive up
DRUKREF_03	115711	Ellipsoidal	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
EGM96_Geoid_(ftIntl)	105797	Gravity-related	Positive up
EGM96_Geoid_(ftUS)	105798	Gravity-related	Positive up
EH2000_height	9663	Gravity-related	Positive up
El_Hierro_height	9401	Gravity-related	Positive up
EOMA_1980	5787	Gravity-related	Positive up
Estonia_1997	115712	Ellipsoidal	Positive up
ETRF2000	115829	Ellipsoidal	Positive up
ETRF2000-PL	115890	Ellipsoidal	Positive up
ETRF2005	115873	Ellipsoidal	Positive up
ETRF2014	115874	Ellipsoidal	Positive up
ETRF90	115822	Ellipsoidal	Positive up
ETRF91	115823	Ellipsoidal	Positive up
ETRF92	115824	Ellipsoidal	Positive up
ETRF93	115825	Ellipsoidal	Positive up
ETRF94	115826	Ellipsoidal	Positive up
ETRF96	115827	Ellipsoidal	Positive up
ETRF97	115828	Ellipsoidal	Positive up
ETRF_1989	115889	Ellipsoidal	Positive up
ETRS_1989	115701	Ellipsoidal	Positive up
ETRS89_DREF91_2016	115923	Ellipsoidal	Positive up
EUREF_FIN	115713	Ellipsoidal	Positive up
EVRF_2007	5621	Gravity-related	Positive up
EVRF_2007_PL_height	9651	Gravity-related	Positive up
EVRF_2019	9389	Gravity-related	Positive up
EVRF_2019_mean-tide	9390	Gravity-related	Positive up
EVRF2000_Austria_height	9274	Gravity-related	Positive up
EVRS_2000	5730	Gravity-related	Positive up
Fahud_Height_Datum_1993	5725	Gravity-related	Positive up

VCS Name	WKID	Model	Positive Direction
Fair_Isle	5741	Gravity-related	Positive up
Famagusta_1960_(height)	7446	Gravity-related	Positive up
Fao	5751	Gravity-related	Positive up
Fao_1979	3886	Gravity-related	Positive up
FCSVR10_Height	5597	Gravity-related	Positive up
FEH2010	115714	Ellipsoidal	Positive up
Flannan_Isles	5748	Gravity-related	Positive up
Formentera_height	10352	Gravity-related	Positive up
Foula	5743	Gravity-related	Positive up
Fuerteventura_height	9396	Gravity-related	Positive up
FVR09_height	5317	Gravity-related	Positive up
GCVD54_height	6130	Gravity-related	Positive up
GDA_1994	115715	Ellipsoidal	Positive up
GDA2020	115805	Ellipsoidal	Positive up
GDBD2009	115716	Ellipsoidal	Positive up
GDM_2000	115717	Ellipsoidal	Positive up
Genoa_height	5214	Gravity-related	Positive up
GGD	115845	Ellipsoidal	Positive up
GHA	5778	Gravity-related	Positive up
Gisborne	5762	Gravity-related	Positive up
GNTRANS2016_height	9927	Gravity-related	Positive up
GNTRANS_height	9923	Gravity-related	Positive up
Gran_Canaria_height	9397	Gravity-related	Positive up
Greenland_1996	115718	Ellipsoidal	Positive up
Guadeloupe_1951	5795	Gravity-related	Positive up
Guam_1963_height	6639	Gravity-related	Positive up
GUVD04_height	6644	Gravity-related	Positive up
GVR2000_height	8266	Gravity-related	Positive up
GVR2016_height	8267	Gravity-related	Positive up
Hartebeesthoek_1994	115719	Ellipsoidal	Positive up
HAT_Height	5872	Gravity-related	Positive up
Ha_Tien_1960	5726	Gravity-related	Positive up
HHWLT_Height	5871	Gravity-related	Positive up
High_Water_Height	5874	Gravity-related	Positive up
HKPD_depth	7976	Gravity-related	Positive down
Hon_Dau_1992	5727	Gravity-related	Positive up
Hong_Kong_Chart_Datum	5739	Gravity-related	Positive down
Hong_Kong_Geodetic_CS	115839	Ellipsoidal	Positive up
Hong_Kong_Principal_Datum	5738	Gravity-related	Positive up
Horta_height	6181	Gravity-related	Positive up
HS2-VRF_height	9303	Gravity-related	Positive up
HTRS96	115891	Ellipsoidal	Positive up
Huahine_SAU_2001	5605	Gravity-related	Positive up
HVRS_1971	5610	Gravity-related	Positive up
Ibiza_height	9394	Gravity-related	Positive up
IG05(2012)_Intermediate_CRS	115723	Ellipsoidal	Positive up
IG05_Intermediate_CRS	115721	Ellipsoidal	Positive up
IGb00	115869	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
IGb08	115871	Ellipsoidal	Positive up
IGb14	115892	Ellipsoidal	Positive up
IGD05	115720	Ellipsoidal	Positive up
IGD05(2012)	115722	Ellipsoidal	Positive up
IGLD_1955	5608	Gravity-related	Positive up
IGLD_1985	5609	Gravity-related	Positive up
IGM_1995	115724	Ellipsoidal	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
IGN_2008_LD_height	9130	Gravity-related	Positive up
IGRS	115725	Ellipsoidal	Positive up
IGS00	115868	Ellipsoidal	Positive up
IGS05	115870	Ellipsoidal	Positive up
IGS08	115893	Ellipsoidal	Positive up
IGS14	115837	Ellipsoidal	Positive up
IGS20	115922	Ellipsoidal	Positive up
IGS97	115867	Ellipsoidal	Positive up
INAGeoid2020_height	9471	Gravity-related	Positive up
INAGeoid2020_v2_height	20036	Gravity-related	Positive up
Instantaneous_Water_Level_Depth	5831	Gravity-related	Positive down
Instantaneous_Water_Level_Height	5829	Gravity-related	Positive up
IRENET95	115726	Ellipsoidal	Positive up
ISH2004_height	8089	Gravity-related	Positive up
ISLW_Depth	5863	Gravity-related	Positive down
ISN_1993	115727	Ellipsoidal	Positive up
ISN_2004	115728	Ellipsoidal	Positive up
ISN2016	115838	Ellipsoidal	Positive up
ITRF_1988	115729	Ellipsoidal	Positive up
ITRF_1989	115730	Ellipsoidal	Positive up
ITRF_1990	115731	Ellipsoidal	Positive up
ITRF_1991	115732	Ellipsoidal	Positive up
ITRF_1992	115733	Ellipsoidal	Positive up
ITRF_1993	115734	Ellipsoidal	Positive up
ITRF_1994	115879	Ellipsoidal	Positive up
ITRF_1996	115735	Ellipsoidal	Positive up
ITRF_1997	115736	Ellipsoidal	Positive up
ITRF_2000	115737	Ellipsoidal	Positive up
ITRF_2005	115738	Ellipsoidal	Positive up
ITRF_2008	115803	Ellipsoidal	Positive up
ITRF2014	115810	Ellipsoidal	Positive up
ITRF2020	115883	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
JAD_2001	115739	Ellipsoidal	Positive up
Jamestown_1971_height	7888	Gravity-related	Positive up
Japanese_Standard_Levelling_Datum_1969	5723	Gravity-related	Positive up
JGD_2000	115740	Ellipsoidal	Positive up
JGD2000_vertical_height	6694	Gravity-related	Positive up
JGD_2011	115741	Ellipsoidal	Positive up
JGD2011_vertical_height	6695	Gravity-related	Positive up
JSLD72_height	6693	Gravity-related	Positive up
KGD2002	115742	Ellipsoidal	Positive up
Kiunga_(height)	7652	Gravity-related	Positive up
KOC_Construction_Datum	5790	Gravity-related	Positive up
KOC_WD_depth_ft	5614	Gravity-related	Positive down
KOC_WD_height	7979	Gravity-related	Positive up
KOC_Well_Datum	5789	Gravity-related	Positive down
KOSOVAREF01	115872	Ellipsoidal	Positive up
KSA-GRF17	115894	Ellipsoidal	Positive up
KSA-VRF14_height	9335	Gravity-related	Positive up
Kumul_34_(height)	7651	Gravity-related	Positive up
Kuwait_PWD	5788	Gravity-related	Positive up
KVD1964_Height	5193	Gravity-related	Positive up
Kyrg-06	115895	Ellipsoidal	Positive up
La_Gomera_height	9399	Gravity-related	Positive up
Lagos_1955	5796	Gravity-related	Positive up
Lanzarote_height	9395	Gravity-related	Positive up
Lao_1993	115896	Ellipsoidal	Positive up
Lao_1997	115743	Ellipsoidal	Positive up
La_Palma_height	9400	Gravity-related	Positive up
LAS07_height	9666	Gravity-related	Positive up
LAT_Depth	5861	Gravity-related	Positive down
LAT_NL_depth	9287	Gravity-related	Positive down
Latvia_2000_(height)	7700	Gravity-related	Positive up
LCVD61_height	6131	Gravity-related	Positive up
Lerwick	5742	Gravity-related	Positive up
LGD2006	115744	Ellipsoidal	Positive up
LHN95	5729	Gravity-related	Positive up
LKS_1992	115745	Ellipsoidal	Positive up
LKS_1994	115746	Ellipsoidal	Positive up
LKS-2020	115925	Ellipsoidal	Positive up
LLWLT_Depth	5862	Gravity-related	Positive down
LN_1902	5728	Gravity-related	Positive up
Low_Water_Depth	5873	Gravity-related	Positive down
LTF2004(G)	115897	Ellipsoidal	Positive up
LUREF	115886	Ellipsoidal	Positive up
Lyttelton [4]	5763	Gravity-related	Positive up
MACAO_2008	115747	Ellipsoidal	Positive up
Macao_height	8434	Gravity-related	Positive up

[4] Lyttelton name was corrected from Lyttleton at ArcGIS versions 10.6.0 and Pro 2.1.

VCS Name	WKID	Model	Positive Direction
MAGNA	115748	Ellipsoidal	Positive up
MAGNA-SIRGAS_2018	115930	Ellipsoidal	Positive up
Malin_Head	5731	Gravity-related	Positive up
Mallorca_height	9392	Gravity-related	Positive up
Maputo	5722	Gravity-related	Positive up
MARCARIO_SOLIS	115749	Ellipsoidal	Positive up
MARGEN	115750	Ellipsoidal	Positive up
Martinique_1955	5794	Gravity-related	Positive up
Maupiti_SAU_2001	5604	Gravity-related	Positive up
Mauritania_1999	115898	Ellipsoidal	Positive up
Mayotte_1950	5793	Gravity-related	Positive up
Melilla_height	10354	Gravity-related	Positive up
Menorca_height	9393	Gravity-related	Positive up
Mexican_Datum_of_1993	115910	Ellipsoidal	Positive up
Mexico_ITRF2008	115751	Ellipsoidal	Positive up
MGI	115921	Ellipsoidal	Positive up
MHHW_Height	5869	Gravity-related	Positive up
MHW_Height	5868	Gravity-related	Positive up
MHWS_Height	5870	Gravity-related	Positive up
MLLW_Depth	5866	Gravity-related	Positive down
MLLWS_Depth	5864	Gravity-related	Positive down
MLW_Depth	5867	Gravity-related	Positive down
MLWS_Depth	5865	Gravity-related	Positive down
MOLDREF99	115752	Ellipsoidal	Positive up
MONREF_1997	115753	Ellipsoidal	Positive up
Moorea_SAU_1981	5602	Gravity-related	Positive up
Moturiki	5764	Gravity-related	Positive up
Moznet	115754	Ellipsoidal	Positive up
MSL_Depth	5715	Gravity-related	Positive down
MSL_depth_(ftIntl)	8051	Gravity-related	Positive down
MSL_depth_(ftUS)	8053	Gravity-related	Positive down
MSL_Hawaii_height_(ftUS)	105796	Gravity-related	Positive up
MSL_Hawaii_height_(m)	105795	Gravity-related	Positive up
MSL_Height	5714	Gravity-related	Positive up
MSL_height_(ftIntl)	8050	Gravity-related	Positive up
MSL_height_(ftUS)	8052	Gravity-related	Positive up
MSL_NL_depth	9288	Gravity-related	Positive down
MSL_UK_Ireland_VORF08_depth	10150	Gravity-related	Positive down
MTRF-2000	115843	Ellipsoidal	Positive up
MVGC_height	8841	Gravity-related	Positive up
N2000_height	3900	Gravity-related	Positive up
N43_height	8675	Gravity-related	Positive up
N60	5717	Gravity-related	Positive up
NAD_1983	115702	Ellipsoidal	Positive up
NAD_1983_2011	115755	Ellipsoidal	Positive up
NAD_1983_CORS96	115756	Ellipsoidal	Positive up
NAD_1983_(FBN)	115840	Ellipsoidal	Positive up
NAD_1983_(HARN_Corrected)	115841	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
NAD_1983_MA11	115759	Ellipsoidal	Positive up
NAD_1983_MARP00	115760	Ellipsoidal	Positive up
NAD_1983_NSRS2007	115761	Ellipsoidal	Positive up
NAD_1983_PA11	115762	Ellipsoidal	Positive up
NAD_1983_PACP00	115763	Ellipsoidal	Positive up
NAD83(CSRS96)	115830	Ellipsoidal	Positive up
NAD83(CSRS)v2	115831	Ellipsoidal	Positive up
NAD83(CSRS)v3	115832	Ellipsoidal	Positive up
NAD83(CSRS)v4	115833	Ellipsoidal	Positive up
NAD83(CSRS)v5	115834	Ellipsoidal	Positive up
NAD83(CSRS)v6	115835	Ellipsoidal	Positive up
NAD83(CSRS)v7	115836	Ellipsoidal	Positive up
NAD83(CSRS)v8	115931	Ellipsoidal	Positive up
NAP	5709	Gravity-related	Positive up
Napier	5765	Gravity-related	Positive up
NAVD_1988	5703	Gravity-related	Positive up
NAVD88_height_(ftIntl)	8228	Gravity-related	Positive up
NAVD88_depth	6357	Gravity-related	Positive down
NAVD88_depth_(ftUS)	6358	Gravity-related	Positive down
NAVD88_height_(ftUS)	6360	Gravity-related	Positive up
Nelson	5766	Gravity-related	Positive up
Nepal_Nagarkot	115764	Ellipsoidal	Positive up
Newlyn	5701	Gravity-related	Positive up
Newlyn_Orkney_Isles	5740	Gravity-related	Positive up
NG95_height	5774	Gravity-related	Positive up
NGA_2022_height	10190	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
NGG_1977	5755	Gravity-related	Positive up
NGNC	5753	Gravity-related	Positive up
NGNC08_height	9351	Gravity-related	Positive up
NGPF	5600	Gravity-related	Positive up
NGVD_1929	5702	Gravity-related	Positive up
NGVD29_depth	6359	Gravity-related	Positive down
NGVD_1929_height_(m)	7968	Gravity-related	Positive up
NMVD03_height	6640	Gravity-related	Positive up
NN2000_height	5941	Gravity-related	Positive up
NN54	5776	Gravity-related	Positive up
North_American_1983_CSRS	115757	Ellipsoidal	Positive up
North_American_1983_HARN	115758	Ellipsoidal	Positive up
North_Rona	5745	Gravity-related	Positive up
NVD_1992_height	9681	Gravity-related	Positive up
NVN99	5779	Gravity-related	Positive up
NZGD_2000	115765	Ellipsoidal	Positive up
NZVD2009_height	4440	Gravity-related	Positive up
NZVD2016_height	7839	Gravity-related	Positive up

VCS Name	WKID	Model	Positive Direction
ODN_(Offshore)_(height)	7707	Gravity-related	Positive up
One_Tree_Point	5767	Gravity-related	Positive up
ONGD14	115846	Gravity-related	Positive up
ONGD17	115847	Gravity-related	Positive up
Oostende	5710	Gravity-related	Positive up
Pago_Pago_2020_height	9675	Gravity-related	Positive up
PDO_Height_Datum_1993	5724	Gravity-related	Positive up
Peru96	115766	Ellipsoidal	Positive up
Piraeus	5716	Gravity-related	Positive up
PNG94	115767	Ellipsoidal	Positive up
PNG08_(height)	7447	Gravity-related	Positive up
POM08_height	7841	Gravity-related	Positive up
POM96_height	7832	Gravity-related	Positive up
Ponta_Delgada_height	6187	Gravity-related	Positive up
Poolbeg	5754	Gravity-related	Positive up
Poolbeg_height_(m)	7962	Gravity-related	Positive up
POSGAR	115768	Ellipsoidal	Positive up
POSGAR_1994	115769	Ellipsoidal	Positive up
POSGAR_1998	115770	Ellipsoidal	Positive up
POSGAR_2007	115880	Ellipsoidal	Positive up
PRS_1992	115771	Ellipsoidal	Positive up
PRVD02_height	6641	Gravity-related	Positive up
PTRA08	115772	Ellipsoidal	Positive up
PZ_1990	115773	Ellipsoidal	Positive up
PZ-90.02	115815	Ellipsoidal	Positive up
PZ-90.11	115814	Ellipsoidal	Positive up
Raiatea_SAU_2001	5603	Gravity-related	Positive up
Ras_Ghumays_height	5843	Gravity-related	Positive up
RDN2008	115774	Ellipsoidal	Positive up
REDGEOMIN	115899	Ellipsoidal	Positive up
REDNAP_height	105603	Gravity-related	Positive up
REGCAN95	115775	Ellipsoidal	Positive up
REGVEN	115776	Ellipsoidal	Positive up
RGAF09	115777	Ellipsoidal	Positive up
RGAF09_(lon-lat)	115916	Ellipsoidal	Positive up
RGF_1993	115778	Ellipsoidal	Positive up
RGF93_(lon-lat)	115915	Ellipsoidal	Positive up
RGF93_v2	115881	Ellipsoidal	Positive up
RGF93_v2_(lon-lat)	115918	Ellipsoidal	Positive up
RGF93_v2b	115882	Ellipsoidal	Positive up
RGF93_v2b_(lon-lat)	115919	Ellipsoidal	Positive up
RGFG_1995	115779	Ellipsoidal	Positive up
RGFG95_(lon-lat)	115914	Ellipsoidal	Positive up
RGM_2004	115780	Ellipsoidal	Positive up
RGM04_(lon-lat)	115913	Ellipsoidal	Positive up
RGNC_1991	115781	Ellipsoidal	Positive up
RGNC_1991-93	115782	Ellipsoidal	Positive up
RGNC_1991-93_(lon-lat)	115926	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
RGNC15	115927	Ellipsoidal	Positive up
RGNC15_(lon-lat)	115928	Ellipsoidal	Positive up
RGPF	115783	Ellipsoidal	Positive up
RGR_1992	115784	Ellipsoidal	Positive up
RGR92_(lon-lat)	115912	Ellipsoidal	Positive up
RGRDC_2005	115785	Ellipsoidal	Positive up
RGSH2020	115924	Ellipsoidal	Positive up
RGSPM_2006	115786	Ellipsoidal	Positive up
RGSPM06_(lon-lat)	115911	Ellipsoidal	Positive up
RGTAAF07	115900	Ellipsoidal	Positive up
RGTAAF07_(lon-lat)	115901	Ellipsoidal	Positive up
RGWF96	115850	Ellipsoidal	Positive up
RGWF96_(lon-lat)	115917	Ellipsoidal	Positive up
RH1900	5615	Gravity-related	Positive up
RH2000	5613	Gravity-related	Positive up
RH70	5718	Gravity-related	Positive up
RRAF_1991	115787	Ellipsoidal	Positive up
RSAO13	115902	Ellipsoidal	Positive up
RSRGD2000	115788	Ellipsoidal	Positive up
Santa_Cruz_da_Graciosa_height	6183	Gravity-related	Positive up
Santa_Cruz_das_Flores_height	6185	Gravity-related	Positive up
SA_LLD_height	9279	Gravity-related	Positive up
SHD_height	6916	Gravity-related	Positive up
SHVD2015_height	7890	Gravity-related	Positive up
SIRGAS_2000	115789	Ellipsoidal	Positive up
SIRGAS-Chile_2002	115790	Ellipsoidal	Positive up
SIRGAS-Chile_2010	115903	Ellipsoidal	Positive up
SIRGAS-Chile_2013	115904	Ellipsoidal	Positive up
SIRGAS-Chile_2016	115905	Ellipsoidal	Positive up
SIRGAS_Chile_2021_height	115884	Ellipsoidal	Positive up
SIRGAS-CON_DGF00P01	115851	Ellipsoidal	Positive up
SIRGAS-CON_DGF01P01	115852	Ellipsoidal	Positive up
SIRGAS-CON_DGF01P02	115853	Ellipsoidal	Positive up
SIRGAS-CON_DGF02P01	115854	Ellipsoidal	Positive up
SIRGAS-CON_DGF04P01	115855	Ellipsoidal	Positive up
SIRGAS-CON_DGF05P01	115856	Ellipsoidal	Positive up
SIRGAS-CON_DGF06P01	115857	Ellipsoidal	Positive up
SIRGAS-CON_DGF07P01	115858	Ellipsoidal	Positive up
SIRGAS-CON_DGF08P01	115859	Ellipsoidal	Positive up
SIRGAS-CON_SIR09P01	115860	Ellipsoidal	Positive up
SIRGAS-CON_SIR10P01	115861	Ellipsoidal	Positive up
SIRGAS-CON_SIR11P01	115862	Ellipsoidal	Positive up
SIRGAS-CON_SIR13P01	115863	Ellipsoidal	Positive up
SIRGAS-CON_SIR14P01	115864	Ellipsoidal	Positive up
SIRGAS-CON_SIR15P01	115865	Ellipsoidal	Positive up
SIRGAS-CON_SIR17P01	115866	Ellipsoidal	Positive up
SIRGAS_ES2007.8	115791	Ellipsoidal	Positive up
SIRGAS-ROU98	115792	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
S_JTSK/05	115796	Ellipsoidal	Positive up
S_JTSK/05_Ferro	115797	Ellipsoidal	Positive up
S-JTSK_[JTSK03	115848	Ellipsoidal	Positive up
SLD99	115793	Ellipsoidal	Positive up
Slovenia_1996	115794	Ellipsoidal	Positive up
SLVD_height	5237	Gravity-related	Positive up
SNN76	5785	Gravity-related	Positive up
SRB_ETRS89	115842	Ellipsoidal	Positive up
SRB_VRS12_height	8691	Gravity-related	Positive up
SREF98	115795	Ellipsoidal	Positive up
SRGI2013	115906	Ellipsoidal	Positive up
SRVN16_height	9255	Gravity-related	Positive up
Stewart_Island	5772	Gravity-related	Positive up
St_Helena_Tritan	115812	Ellipsoidal	Positive up
St_Helena_Tritan_2011_height	7889	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
SVD2006_height	20000	Gravity-related	Positive up
SWEREF99	115798	Ellipsoidal	Positive up
Swiss_TRF_1995	115706	Ellipsoidal	Positive up
Tahaa_SAU_2001	5606	Gravity-related	Positive up
Taranaki	5769	Gravity-related	Positive up
Tararu	5768	Gravity-related	Positive up
Tenerife_height	9398	Gravity-related	Positive up
TGD2005	115799	Ellipsoidal	Positive up
Trieste_height	5195	Gravity-related	Positive up
TUREF	115804	Ellipsoidal	Positive up
Tutuila_1962_height	6638	Gravity-related	Positive up
TWD_1997	115800	Ellipsoidal	Positive up
TWVD_2001_height	8904	Gravity-related	Positive up
Ukraine_2000	115801	Ellipsoidal	Positive up
Unknown_height_system_(Intl_Feet)	115809	Gravity-related	Positive up
Unknown_height_system_(meters)	115807	Gravity-related	Positive up
Unknown_height_system_(US_survey_feet)	115808	Gravity-related	Positive up
Vienna_height	8881	Gravity-related	Positive up
VIVD09_height	6642	Gravity-related	Positive up
Wellington	5770	Gravity-related	Positive up
WGS_1966	115907	Ellipsoidal	Positive up
WGS_1972	115908	Ellipsoidal	Positive up
WGS_1972_BE	115909	Ellipsoidal	Positive up
WGS_1984	115700	Ellipsoidal	Positive up
WGS_1984_Geoid	105700	Gravity-related	Positive up
WGS_1984_(G1150)	115819	Ellipsoidal	Positive up
WGS_1984_(G1674)	115818	Ellipsoidal	Positive up
WGS_1984_(G1762)	115817	Ellipsoidal	Positive up
WGS_1984_(G2139)_height	115885	Ellipsoidal	Positive up

VCS Name	WKID	Model	Positive Direction
WGS_1984_(G730)	115821	Ellipsoidal	Positive up
WGS_1984_(G873)	115820	Ellipsoidal	Positive up
WGS_1984_(Transit)	115816	Ellipsoidal	Positive up
Yellow_Sea_1956	5736	Gravity-related	Positive up
Yellow_Sea_1985	5737	Gravity-related	Positive up
Yemen_NGN_1996	115802	Ellipsoidal	Positive up
ZH_Portugal_depth	10349	Gravity-related	Positive down

Table 9: Vertical datums: well-known IDs

Vertical Datum Name	WKID
AIOC_1995	5133
Alboran	1363
Alicante	5180
American_Samoa_Vertical_Datum_of_2002	1125
Antalya	5173
Auckland	5157
Australian_Height_Datum	5111
Australian_Height_Datum_Tasmania	5112
Australian_Vertical_Working_Surface	1292
Baltic_1957	1202
Baltic_1980	5185
Baltic_1982	5184
Baltic_1986	1296
Baltic_Sea	5105
Bandar_Abbas	5150
Belfast	5131
Black_Sea	5134
Bluff	5158
Bora_Bora_SAU_2001	5202
British_Isles_height_ensemble	1288
Bulgarian_Height_System_2005	1300
Cagliari_1956	1307
Cais_da_Figueirinha-Angra_do_Heroismo	1107
Cais_da_Madalena	1105
Cais_da_Pontinha-Funchal	1101
Cais_das_Velas	1103
Cais_da_Vila_do_Porto	1109
Cais_da_Vila-Porto_Santo	1102
Canadian_Geodetic_Vertical_Datum_of_1928	5114
Canadian_Geodetic_Vertical_Datum_of_2013	1127
Canadian_Geodetic_Vertical_Datum_of_2013_CGG2013a	1256
Canadian_Geodetic_Vertical_Datum_of_2013_(CGG2013a)_epoch_1997	1326
Canadian_Geodetic_Vertical_Datum_of_2013_(CGG2013a)_epoch_2002	1325
Cascais	5178
Caspian_Sea	5106
Catania_1965	1306

Vertical Datum Name	WKID
Cayman_Brac_Vertical_Datum_1961	1099
Ceuta_2	1285
Chart_Datum_Portugal	1361
Chart_Datum_UK_Ireland_VORF08	1331
Chatham_Island	5169
Constanta	5179
Croatian_Vertical_Reference_System_1971	5207
Danger_1950	5190
Dansk_Normal_Nul	5132
Dansk_Vertikal_Reference_1990	5206
Datum_Altimetrico_de_Costa_Rica_1952	1226
Deutsches_Haupthoehennetz_1912	1161
Deutsches_Haupthoehennetz_1985	5182
Deutsches_Haupthoehennetz_1992	5181
Deutsches_Haupthoehennetz_2016	1170
Douglas	5148
Dunedin	5159
Dunedin_Bluff_1960	1040
Durres	5175
EGM2008_Geoid	1027
EGM84_Geoid	5203
EGM96_Geoid	5171
El_Hierro	1284
EPSG_example_wellbore_vertical_datum	1205
Estonian_Height_System_2000	1298
European_Vertical_Reference_Frame_2000	5129
European_Vertical_Reference_Frame_2000_Austria	1261
European_Vertical_Reference_Frame_2007	5215
European_Vertical_Reference_Frame_2007_Poland	1297
European_Vertical_Reference_Frame_2019	1274
European_Vertical_Reference_Frame_2019_mean_tide	1287
Fahud_Height_Datum	5124
Fair_Isle	5139
Famagusta_1960	1148
Fao	5149
Fao_1979	1028
Faroe_Islands_Vertical_Reference_2009	1059
Fehmarnbelt_Vertical_Reference_2010	1079
Flannan_Isles	5146
Formentera	1362
Foula	5141
Fuerteventura	1279
Gebrauchshohen_Adria	5176
Genoa	1051
Gisborne	5160
GNTRANS	1316
GNTRANS2016	1318
Gran_Canaria	1280

Vertical Datum Name	WKID
Grand_Cayman_Vertical_Datum_1954	1097
Greenland_Vertical_Reference_2000	1199
Greenland_Vertical_Reference_2016	1200
Guadeloupe_1951	5193
Guam_Vertical_Datum_of_1963	1122
Guam_Vertical_Datum_of_2004	1126
Ha_Tien_1960	5125
Helsinki_1943	1213
Helsinki_1960	5116
Higher_High_Water_Large_Tide	1084
Highest_Astronomic_Tide	1082
High_Water	1094
Hon_Dau_1992	5126
Hong_Kong_Chart_Datum	5136
Hong_Kong_Principal_Datum	5135
Horta	1104
HS2_Vertical_Reference_Frame	1265
Huahine_SAU_2001	5200
Ibiza	1277
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
IGN_2008_LD	1250
Indian_Spring_Low_Water	1085
Indonesian_Geoid_2020	1294
Indonesian_Geoid_2020_version_2	1328
International_Great_Lakes_Datum_1955	5204
International_Great_Lakes_Datum_1985	5205
Jamestown_1971	1175
Japanese_Geodetic_Datum_2000_vertical	1130
Japanese_Geodetic_Datum_2011_vertical	1131
Japanese_Standard_Levelling_Datum_1969	5122
Japanese_Standard_Levelling_Datum_1972	1129
Kingdom_of_Saudi_Arabia_Vertical_Reference_Frame_Jeddah_2014	1269
Kiunga	1151
KOC_Construction_Datum	5188
KOC_Well_Datum	5187
Korean_Vertical_Datum_1964	1049
Kumul_34	1150
Kuwait_PWD	5186
La_Gomera	1282
Lagos_1955	5194

Vertical Datum Name	WKID
Landeshohennetz_1995	5128
Landesnivellement_1902	5127
Landshaedarkerfi_Islands_2004	1190
Lanzarote	1278
La_Palma	1283
Latvian_Height_System_2000	1162
Lerwick	5140
Lithuanian_Height_System_2007	1299
Little_Cayman_Vertical_Datum_1961	1098
Local_Tidal_Datum_at_Pago_Pago_2020	1302
Lower_Low_Water_Large_Tide	1083
Lowest_Astronomic_Tide	1080
Lowest_Astronomical_Tide_Netherlands	1290
Low_Water	1093
Lyttelton [5]	5161
Macao_Height_Datum	1210
Malin_Head	5130
Mallorca	1275
Maputo	5121
Martinique_1955	5192
Maupiti_SAU_2001	5199
Mayotte_1950	5191
Mean_Higher_High_Water	1090
Mean_High_Water	1092
Mean_High_Water_Spring_Tides	1088
Mean_Lower_Low_Water	1089
Mean_Lower_Low_Water_Spring_Tides	1086
Mean_Low_Water	1091
Mean_Low_Water_Spring_Tides	1087
Mean_Sea_Level	5100
Mean_Sea_Level_Hawaii	105105
Mean_Sea_Level_Netherlands	1270
Mean_Sea_Level_UK_Ireland_VORF08	1330
Melilla	1364
Menorca	1276
MOMRA_Vertical_Geodetic_Control	1219
Moorea_SAU_1981	5197
Moturiki	5162
N2000	1030
Napier	5163
National_Geodetic_Vertical_Datum_1929	5102
National_Vertical_Datum_1992	1303
Nelson	5164
New_Zealand_Vertical_Datum_2009	1039
New_Zealand_Vertical_Datum_2016	1169
Nivellement_General_de_l_Algerie_2022	1354

[5] Lyttelton name was corrected from Lyttleton in ArcGIS versions 10.6.0 and Pro 2.1.

Vertical Datum Name	WKID
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_Nouvelle_Caledonie_2008	1255
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
Northern_Marianas_Vertical_Datum_of_2003	1119
North_Rona	5143
Norway_Normal_Null_1954	5174
Norway_Normal_Null_2000	1096
Norwegian_Chart_Datum	1301
One_Tree_Point	5165
Oostende	5110
Ordnance_Datum_Newlyn	5101
Ordnance_Datum_Newlyn_(Offshore)	1164
Ordnance_Datum_Newlyn_Orkney_Isles	5138
Papua_New_Guinea_2008	1149
PDO_Height_Datum_1993	5123
Piraeus_Harbour_1986	5115
Ponta_Delgada	1110
Poolbeg	5152
Port_Moresby_1996	1171
Port_Moresby_2008	1172
Puerto_Rico_Vertical_Datum_of_2002	1123
Raiatea_SAU_2001	5198
Ras_Ghumays	1146
Red_Espanola_de_Nivelacion_de_Alta_Precision	105103
Rikets_Hojdsystem_1900	5209
Rikets_Hojdsystem_1970	5117
Rikets_Hojdsystem_2000	5208
Santa_Cruz_da_Graciosa	1106
Santa_Cruz_das_Flores	1108
Sea_Level	5113
Serbian_Vertical_Reference_System_2012	1216
Singapore_Height_Datum	1140
Sistema_de_Referencia_Vertical_Nacional_2016	1260
Slovenian_Vertical_System_2000	5177
Slovenian_Vertical_System_2010	1215
SNN76	5183
South_Africa_Land_Levelling_Datum	1262
Sri_Lanka_Vertical_Datum	1054
Stewart_Island	5170
St_Helena_Tritan_Vertical_Datum_2011	1176

Vertical Datum Name	WKID
St_Helena_Vertical_Datum_2015	1177
St_Kilda	5145
St_Marys	5147
Stornoway	5144
Sule_Skerry	5142
Svalbard_vertical_datum_2006	1323
Tahaa_SAU_2001	5201
Taiwan_Vertical_Datum_2001	1224
Taranaki	5167
Tararu	5166
Trieste	1050
Tenerife	1281
Tutuila_Vertical_Datum_of_1962	1121
Unknown_height_system_(Intl_feet)	105112
Unknown_height_system_(meters)	105110
Unknown_height_system_(US_survey_feet)	105111
Virgin_Islands_Vertical_Datum_of_2009	1124
Wellington	5168
Wiener_Null	1267
WGS_1984_Geoid	105100
Yellow_Sea_1956	5104
Yellow_Sea_1985	5137

