
Geographic(datum) transformations—Areas of use

Name	Code	Area of use
Abidjan_1987_To_WGS_1984	1470	Cote d'Ivoire
Accra_To_WGS_1972_BE	1570	Ghana - offshore
Accra_To_WGS_1984	1569	Ghana
Adindan_To_WGS_1984_1	1100	Eritrea, Ethiopia and Sudan
Adindan_To_WGS_1984_2	1101	Burkina Faso
Adindan_To_WGS_1984_3	1102	Cameroon
Adindan_To_WGS_1984_4	1103	Ethiopia
Adindan_To_WGS_1984_5	1104	Mali
Adindan_To_WGS_1984_6	1105	Senegal
Adindan_To_WGS_1984_7	1106	Sudan
Afgooye_To_WGS_1984	1107	Somalia
AGD_1966_To_GDA_1994	1278	Australia
AGD_1966_To_GDA_1994_2	1458	Australia - ACT
AGD_1966_To_GDA_1994_3	1459	Australia - Tasmania
AGD_1966_To_GDA_1994_4	1460	Australia - New South Wales & Victoria
AGD_1966_To_GDA_1994_8	1594	Australia - Tasmania
AGD_1966_To_GDA_1994_9	1595	Australia - Northern Territory
AGD_1966_To_GDA_1994_10_NTv2_New_South_Wales_&_Victoria	1596	Australia - New South Wales, Victoria, & ACT
AGD_1966_To_GDA_1994_11_NTv2	1803	Australia
AGD_1966_To_GDA_1994_NTv2_Northern_Territory	1507	Australia - Northern Territory
AGD_1966_To_GDA_1994_NTv2_Tasmania	1506	Australia - Tasmania
AGD_1966_To_GDA_1994_NTv2_Victoria	1464	Australia - Victoria
AGD_1966_To_WGS_1984	1108	Australia
AGD_1966_To_WGS_1984_12	1665	Australia - ACT
AGD_1966_To_WGS_1984_13	1666	Australia - NSW & Victoria
AGD_1966_To_WGS_1984_14	1667	Australia - Tasmania
AGD_1966_To_WGS_1984_15	1668	Australia - Northern Territory
AGD_1966_To_WGS_1984_16	15788	Australia - Australian Capital Territory; New South Wales; Northern Territories; Queensland; South Australia; Tasmania; Western Australia; Victoria
AGD_1966_To_WGS_1984_17_NTv2	15786	Australia
AGD_1984_To_GDA_1994	1279	Australia
AGD_1984_To_GDA_1994_2	1280	Australia
AGD_1984_To_GDA_1994_3	1559	Western Australia
AGD_1984_To_GDA_1994_4_NTv2_Western_Australia	1593	Western Australia
AGD_1984_To_GDA_1994_5_NTv2	1804	Australia - Queensland, South Australia, Western Australia
AGD_1984_To_GDA_1994_NTv2_Queensland	108453	Queensland
AGD_1984_To_WGS_1984_1	1109	Australia
AGD_1984_To_WGS_1984_2	1236	Australia

AGD_1984_To_WGS_1984_7	1669	Australia
AGD_1984_To_WGS_1984_8	15789	Australia - Australian Capital Territory; New South Wales; Northern Territories; Queensland; South Australia; Tasmania; Western Australia; Victoria
AGD_1984_To_WGS_1984_9_NTV2	15785	Australia - Queensland, South Australia, Western Australia
Ain_El_Abd_To_WGS_1984_1	1110	Bahrain
Ain_El_Abd_To_WGS_1984_2	1111	Saudi Arabia
Ain_el_Abd_To_WGS_1984_3	1055	Kuwait
Ain_El_Abd_To_WGS_1984_4	1056	Kuwait
Ain_El_Abd_To_WGS_1984_5	1057	Kuwait - N of a line connecting Al Jahra' and Kuwait/Iraq/Saudi Arabia border tripoint
Ain_El_Abd_To_WGS_1984_6	1058	Kuwait - S of a line connecting Al Jahra' and Kuwait/Iraq/Saudi Arabia border tripoint
American_Samoa_1962_To_HARN_American_Samoa_East	1579	American Samoa East - Ofu, Olosega, & Ta'u islands
American_Samoa_1962_To_HARN_American_Samoa_West	1578	American Samoa West - Tutuila & Aunu'u islands
American_Samoa_1962_To_WGS_1984	1577	American Samoa
American_Samoa_1962_To_WGS_1984_2	1694	American Samoa - HARN Tutuila and Aunu'u islands
American_Samoa_1962_To_WGS_1984_3	1695	American Samoa - HARN Ofu, Olosega and Ta'u islands
Amersfoort_To_ETRS_1989	1751	Netherlands
Amersfoort_To_ETRS_1989_3	15739	Netherlands
Amersfoort_To_ETRS_1989_4	15740	Netherlands
Amersfoort_To_ETRS_1989_MB	1066	Netherlands
Amersfoort_To_WGS_1984	1112	Netherlands
Amersfoort_To_WGS_1984_2	1672	Netherlands
Amersfoort_To_WGS_1984_3	15934	Netherlands
Amersfoort_To_WGS_1984_4X	108237	Netherlands
Ammassalik_1958_To_Greenland_1996_1	15900	Greenland - onshore and offshore
Ammassalik_1958_To_WGS_1984_1	1800	Greenland - Ammassalik area
Anna_1_1965_To_WGS_1984	15794	Cocos Islands
Antigua_1943_To_WGS_1984	1441	Antigua
Antigua_1943_To_WGS_1984_NGA	15811	Leeward Islands - Antigua Island
Aratu_To_WGS_1984_1	1549	Brazil - Campos; Espirito Santo, Santos basin
Aratu_To_WGS_1984_2	1550	Brazil - Tucano basin north
Aratu_To_WGS_1984_3	1551	Brazil - Tucano basin central
Aratu_To_WGS_1984_4	1552	Brazil - Tucano basin south
Aratu_To_WGS_1984_5	10089	Brazil - offshore - Santos basin
Aratu_To_WGS_1984_6	10090	Brazil - offshore - Campos basin
Aratu_To_WGS_1984_7	10091	Brazil - offshore - Espirito Santo basin
Aratu_To_WGS_1984_8	10092	Brazil - offshore - Pelotas basin
Aratu_To_WGS_1984_9	10093	Brazil - offshore south of 18° South
Aratu_To_WGS_1984_10	15710	Brazil - offshore - Campos basin
Aratu_To_WGS_1984_11	15711	Brazil - offshore - Santos basin

Aratu_To_WGS_1984_12	15712	Brazil - offshore - Espirito Santo basin
Arc_1950_To_WGS_1984_1	1113	Botswana, Malawi, Swaziland, Zaire, Zambia, and Zimbabwe
Arc_1950_To_WGS_1984_2	1114	Botswana
Arc_1950_To_WGS_1984_3	1115	Burundi
Arc_1950_To_WGS_1984_4	1116	Lesotho
Arc_1950_To_WGS_1984_5	1117	Malawi
Arc_1950_To_WGS_1984_6	1118	Swaziland
Arc_1950_To_WGS_1984_7	1119	Zaire
Arc_1950_To_WGS_1984_8	1120	Zambia
Arc_1950_To_WGS_1984_9	1121	Zimbabwe
Arc_1960_To_WGS_1984	1122	Kenya and Tanzania
Arc_1960_To_WGS_1984_2	1284	Kenya
Arc_1960_To_WGS_1984_3	1285	Tanzania
Ascension_Island_1958_To_WGS_1984	15797	Ascension Island
Astro_1952_To_WGS_1984	15799	Marcus Island
ATS_1977_To_NAD_1983_CSRS_2_NTV2_Prince_Edward_Is	1846	Canada - Prince Edward Island
ATS_1977_To_NAD_1983_CSRS_NTV2_Maritimes	108302	Canada - Maritimes
ATS_1977_To_NAD_1983_CSRS_NTV2_New_Brunswick	1841	Canada - New Brunswick
ATS_1977_To_NAD_1983_CSRS_NTV2_Nova_Scotia	1850	Canada - Nova Scotia
ATS_1977_To_WGS_1984_1	1688	Canada - New Brunswick
ATS_1977_To_WGS_1984_2	1689	Canada - Prince Edward Island
ATS_1977_To_WGS_1984_3	1851	Canada - Nova Scotia
Australian_Antarctic_1998_To_WGS_1984_1	1890	Antarctica
Ayabelle_To_WGS_1984	15800	Djibouti
Azores_Central_1948_To_WGS_1984_1	1886	Azores - Graciosa, Terceira, Sao Jorge, Pico, Faial
Azores_Central_1995_To_WGS_1984_2	1972	Azores - central, Terceira island
Azores_Central_1995_To_WGS_1984_3	1973	Azores - central, Terceira island
Azores_Central_1995_To_WGS_1984_4	1974	Azores - central, Faial island
Azores_Central_1995_To_WGS_1984_5	1975	Azores - central, Terceira island
Azores_Central_1995_To_WGS_1984_6	1976	Azores - central, Pico island
Azores_Central_1995_To_WGS_1984_7	1977	Azores - central, Pico island
Azores_Central_1995_To_WGS_1984_8	1978	Azores - central, Sao Jorge island
Azores_Central_1995_To_WGS_1984_9	1979	Azores - central, Sao Jorge island
Azores_Central_1995_To_WGS_1984_10	1980	Azores - Faial, Graciosa, Pico, Sao Jorge, and Terceira islands
Azores_Central_1995_To_WGS_1984_11	1981	Azores - Faial, Graciosa, Pico, Sao Jorge, and Terceira islands
Azores_Occidental_1939_To_WGS_1984_1	1887	Azores - Flores, Corvo
Azores_Occidental_1939_To_WGS_1984_2	1982	Azores - Flores, Corvo islands
Azores_Oriental_1940_To_WGS_1984_1	1885	Azores - Sao Miguel and Santa Maria
Azores_Oriental_1995_To_WGS_1984_2	1968	Azores - Sao Miguel island
Azores_Oriental_1995_To_WGS_1984_3	1969	Azores - Sao Miguel island
Azores_Oriental_1995_To_WGS_1984_4	1970	Azores - Santa Maria and Sao Miguel islands

Azores_Oriental_1995_To_WGS_1984_5	1971	Azores - Santa Maria and Sao Miguel islands
Bab_South_To_NAD_1983	108134	Bablethuap Island - Republic of Palau
Barbados_1938_To_WGS_1984_1	15793	Barbados
Batavia_Jakarta_To_Batavia	1759	Indonesia
Batavia_Jakarta_To_WGS_1984	8178	Indonesia
Batavia_To_WGS_1984	1123	Indonesia - Sumatra
Batavia_To_WGS_1984_2	1813	Indonesia - Java Sea - offshore northwest Java
Batavia_To_WGS_1984_3	1814	Indonesia - eastern Java Sea
Beacon_E_1945_To_WGS_1984	15796	Iwo Jima
Beduaram_To_WGS_1972_BE_1	1839	Nigeria - southeast
Beduaram_To_WGS_1984_2	15849	Niger - south east
Beijing_1954_To_WGS_1984_1	15918	China - Orduz basin
Beijing_1954_To_WGS_1984_2	15919	China - offshore Yellow Sea
Beijing_1954_To_WGS_1984_3	15920	China - offshore South China Sea - Pearl River basin
Beijing_1954_To_WGS_1984_4	15921	China - south and west Tarim basin
Beijing_1954_To_WGS_1984_5	15935	China - Bei Bu Basin
Beijing_1954_To_WGS_1984_6	15936	China - Orduz basin
Belge_1950_Brussels_To_Belge_1950	1264	Belgium
Belge_1972_To_ETRS_1989_1	1652	Belgium
Belge_1972_To_ETRS_1989_2	15928	Belgium
Belge_1972_To_WGS_1984_1	1609	Belgium
Belge_1972_To_WGS_1984_2	1610	Belgium
Belge_1972_To_WGS_1984_3	15929	Belgium
Bellevue_IGN_To_WGS_1984	15801	Efate & Erromango Islands
Bermuda_1957_To_WGS_1984	1124	Bermuda
Bern_1898_Bern_To_Bern_1898	8161	Switzerland
Bern_1898_Bern_To_CH1903	1765	Switzerland
Bissau_To_WGS_1984	1547	Guinea-Bissau
Bogota_Bogota_To_Bogota	1755	Colombia
Bogota_Bogota_To_WGS_1984	8174	Colombia
Bogota_To_MAGNA_Region_1_CF	15714	Colombia - Region I - Coordinate frame
Bogota_To_MAGNA_Region_1_MB	15730	Colombia - Region I - Molodensky-Badekas
Bogota_To_MAGNA_Region_2_CF	15716	Colombia - region II - Coordinate frame
Bogota_To_MAGNA_Region_2_MB	15731	Colombia - Region II - Molodensky-Badekas
Bogota_To_MAGNA_Region_3_CF	15718	Colombia - region III - Coordinate frame
Bogota_To_MAGNA_Region_3_MB	15732	Colombia - Region III - Molodensky-Badekas
Bogota_To_MAGNA_Region_4_CF	15720	Colombia - region IV - Coordinate frame
Bogota_To_MAGNA_Region_4_MB	15733	Colombia - Region IV - Molodensky-Badekas
Bogota_To_MAGNA_Region_5_CF	15722	Colombia - region V - Coordinate frame
Bogota_To_MAGNA_Region_5_MB	15734	Colombia - Region V - Molodensky-Badekas
Bogota_To_MAGNA_Region_6_CF	15724	Colombia - region VI - Coordinate frame

Bogota_To_MAGNA_Region_6_MB	15735	Colombia - Region VI - Molodensky-Badekas
Bogota_To_MAGNA_Region_7_CF	15726	Colombia - region VII - Coordinate frame
Bogota_To_MAGNA_Region_7_MB	15736	Colombia - Region VII - Molodensky-Badekas
Bogota_To_MAGNA_Region_8_CF	15728	Colombia - region VIII - Coordinate frame
Bogota_To_MAGNA_Region_8_MB	15737	Colombia - Region VIII - Molodensky-Badekas
Bogota_To_WGS_1984	1125	Colombia
Bogota_To_WGS_1984_2	1597	Colombia - Casanare, BP Cusiana/Cupiagua field areas
Bogota_To_WGS_1984_Region_1_CF	15715	Colombia - Region I - Coordinate frame
Bogota_To_WGS_1984_Region_2_CF	15717	Colombia - region II - Coordinate frame
Bogota_To_WGS_1984_Region_3_CF	15719	Colombia - region III - Coordinate frame
Bogota_To_WGS_1984_Region_4_CF	15721	Colombia - region IV - Coordinate frame
Bogota_To_WGS_1984_Region_5_CF	15723	Colombia - region V - Coordinate frame
Bogota_To_WGS_1984_Region_6_CF	15725	Colombia - region VI - Coordinate frame
Bogota_To_WGS_1984_Region_7_CF	15727	Colombia - region VII - Coordinate frame
Bogota_To_WGS_1984_Region_8_CF	15729	Colombia - region VIII - Coordinate frame
Bukit_Rimpah_To_WGS_1984	1126	Indonesia - Bangka and Belitung Islands
Camacupa_To_WGS_1972_BE_1	1317	Angola - offshore
Camacupa_To_WGS_1984_1	1318	Angola - offshore block 5
Camacupa_To_WGS_1984_10	1327	Angola - offshore block 2, 3, & 17
Camacupa_To_WGS_1984_2	1319	Angola - offshore block 2
Camacupa_To_WGS_1984_3	1320	Angola - offshore block 1 & 16
Camacupa_To_WGS_1984_4	1321	Angola - offshore block 7 & 8
Camacupa_To_WGS_1984_5	1322	Angola - offshore block 3
Camacupa_To_WGS_1984_6	1323	Angola - offshore block 7
Camacupa_To_WGS_1984_7	1324	Angola - offshore block 3, 7, 15, & 17
Camacupa_To_WGS_1984_8	1325	Angola - offshore block 2
Camacupa_To_WGS_1984_9	1326	Angola - offshore block 1 & 16
Camp_Area_To_WGS_1984	15802	Antarctica - McMurdo Base
Campo_Inchauspe_To_POSGAR_1994_1	15782	Argentina - onshore and offshore
Campo_Inchauspe_To_WGS_1984	1127	Argentina
Campo_Inchauspe_To_WGS_1984_2	1527	Argentina - Neuquen province, Chos Malal area
Canton_1966_To_WGS_1984	15803	Phoenix Islands
Cape_Canaveral_To_WGS_1984	15804	Florida & the Bahamas
Cape_To_Hartebeesthoek94	1504	South Africa
Cape_To_WGS_1984_1	1128	South Africa
Cape_To_WGS_1984_2	1129	South Africa
Carthage_Paris_To_Carthage	1881	Tunisia
Carthage_To_WGS_1984	1130	Tunisia
Carthage_To_WGS_1984_2	1538	Tunisia - offshore
CH1903_To_ETRS_1989_1	1646	Switzerland
CH1903_To_WGS_1984_1	1753	Liechtenstein, Switzerland

CH1903_To_WGS_1984_2	1510	Liechtenstein, Switzerland
CH1903+_To_CHTRF_1995	1509	Liechtenstein, Switzerland
CH1903+_To_ETRS_1989_1	1647	Switzerland
CH1903+_To_WGS_1984_1	1676	Switzerland
Chatham_Island_1971_To_WGS_1984	1080	Chatham Island
Chatham_Islands_1979_To_NZGD_2000_1	1082	Chatham Islands
Chatham_Islands_1979_To_WGS_1984_1	1081	Chatham Islands
Chos_Malal_1914_To_Campo_Inchauspe	1528	Argentina - Neuquen province, Chos Malal area
Chos_Malal_1914_To_WGS_1984	8517	Argentina - Neuquen province, Chos Malal area
CHTRF_1995_To_WGS_1984	1511	Liechtenstein, Switzerland
Chua_To_WGS_1984	1131	Paraguay
Combani_1950_To_WGS_1984_1	1916	Mayotte
Conakry_1905_To_WGS_1984	1517	Guinea
Corrego_Alegre_To_WGS_1984	1132	Brazil
CSG_1967_To_RGFG_1995_1	1908	French Guiana
CSG_1967_To_WGS_1984_1	1906	French Guiana
D48_To_ETRS_1989	108276	Slovenia
D48_To_ETRS_1989_2007	108308	Slovenia - up to 1m accuracy
D48_To_ETRS_1989_Dolenjska	108322	Slovenia - Dolenjska up to 30cm accuracy
D48_To_ETRS_1989_Gorenjska	108318	Slovenia - Gorenjska up to 30cm accuracy
D48_To_ETRS_1989_Jugovzhodna_Slovenia	108314	Slovenia - Jugovzhodna Slovenia up to 50cm accuracy
D48_To_ETRS_1989_Juzna_Slovenia	108324	Slovenia - Juzna Slovenia up to 30cm accuracy
D48_To_ETRS_1989_Osrednja_Slovenia	108320	Slovenia - Osrednja Slovenia up to 30cm accuracy
D48_To_ETRS_1989_Pomurje	108328	Slovenia - Pomurje up to 30cm accuracy
D48_To_ETRS_1989_Primorska	108326	Slovenia - Primorska up to 30cm accuracy
D48_To_ETRS_1989_Severovzhodna_Slovenia	108312	Slovenia - Severovzhodna Slovenia up to 50cm accuracy
D48_To_ETRS_1989_Stajerska	108316	Slovenia - Stajerska up to 30cm accuracy
D48_To_ETRS_1989_Zahodna_Slovenia	108310	Slovenia - Zahodna Slovenia up to 50cm accuracy
D48_To_WGS_1984	108277	Slovenia
D48_To_WGS_1984_2007	108309	Slovenia - up to 1m accuracy
D48_To_WGS_1984_Dolenjska	108323	Slovenia - Dolenjska up to 30cm accuracy
D48_To_WGS_1984_Gorenjska	108319	Slovenia - Gorenjska up to 30cm accuracy
D48_To_WGS_1984_Jugovzhodna_Slovenia	108315	Slovenia - Jugovzhodna Slovenia up to 50cm accuracy
D48_To_WGS_1984_Juzna_Slovenia	108325	Slovenia - Juzna Slovenia up to 30cm accuracy
D48_To_WGS_1984_Osrednja_Slovenia	108321	Slovenia - Osrednja Slovenia up to 30cm accuracy
D48_To_WGS_1984_Pomurje	108329	Slovenia - Pomurje up to 30cm accuracy
D48_To_WGS_1984_Primorska	108327	Slovenia - Primorska up to 30cm accuracy
D48_To_WGS_1984_Severovzhodna_Slovenia	108313	Slovenia - Severovzhodna Slovenia up to 50cm accuracy
D48_To_WGS_1984_Stajerska	108317	Slovenia - Stajerska up to 30cm accuracy
D48_To_WGS_1984_Zahodna_Slovenia	108311	Slovenia - Zahodna Slovenia up to 50cm accuracy
Dabola_To_WGS_1984	1518	Guinea

Datum_73_To_ETRS_1989_1	1657	Portugal
Datum_73_To_ETRS_1989_3	1992	Portugal
Datum_73_To_WGS_1984_1	108110	Portugal
Datum_73_To_WGS_1984_2	108120	Portugal
Datum_73_To_WGS_1984_3	1983	Portugal
Datum_73_To_WGS_1984_4	1987	Portugal
Datum_Lisboa_Bessel_To_WGS_1984_1	108113	Portugal
Datum_Lisboa_Bessel_To_WGS_1984_2	108123	Portugal
Datum_Lisboa_Hayford_To_Datum_73_1	108222	Portugal 3 Param
Datum_Lisboa_Hayford_To_Datum_73_2	108223	Portugal 7 Param
Datum_Lisboa_Hayford_To_Datum_Lisboa_Bessel_1	108224	Portugal 3 Param
Datum_Lisboa_Hayford_To_Datum_Lisboa_Bessel_2	108225	Portugal 7 Param
Datum_Lisboa_Hayford_To_WGS_1984_1	108114	Portugal
Datum_Lisboa_Hayford_To_WGS_1984_2	108124	Portugal
Dealul_Piscului_1933_To_WGS_1984_1	1995	Romania
Dealul_Piscului_1970_To_WGS_1984_1	1996	Romania
Dealul_Piscului_1970_To_WGS_1984_2	1097	Romania
Deception_Island_To_WGS_1984	15812	Antarctica - Deception Island
Deir_ez_Zor_To_WGS_1972_BE	1584	Syrian Arab Republic - Deir area (35° 22' N, 40° 06' E)
Deir_ez_Zor_To_WGS_1984_2	15741	Syria - Deir area (35° 22' N 40° 06' E)
Deir_ez_Zor_To_WGS_1984_3	1586	Syrian Arab Republic - Al Whaleed area
Deir_ez_Zor_To_WGS_1984_4	1587	Syrian Arab Republic - Shaddadeh area (36° N, 41° E)
Deir_ez_Zor_To_WGS_1984_5	15742	Syria - onshore and offshore
Deir_ez_Zor_To_WGS_1984_6	15743	Syria - Deir area
DGN_1995_To_WGS_1984_1	15912	Indonesia
DHDN_To_ETRS_1989	1309	Germany - former W Germany
DHDN_To_ETRS_1989_2	1776	Germany - West
DHDN_To_ETRS_1989_3	1778	Germany - S of 50° 20' N
DHDN_To_ETRS_1989_4	1779	Germany - between 50° 20' N and 52° 20' N
DHDN_To_ETRS_1989_5	1780	Germany - N of 52° 20' N
DHDN_To_ETRS_1989_6	1781	Germany - Thuringen
DHDN_To_ETRS_1989_7	1782	Germany - Sachsen
DHDN_To_ETRS_1989_8_NTV2	15948	Germany - onshore
DHDN_To_WGS_1984_1	1673	Germany - West
DHDN_To_WGS_1984_2	1777	Germany - West
DHDN_To_WGS_1984_3	15869	Germany - Brandenburg, Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt, and Thuringen
DHDN_To_WGS_1984_3x	108206	Germany - S of 50° 20' N
DHDN_To_WGS_1984_4_NTV2	15949	Germany - onshore
DHDN_To_WGS_1984_4x	108207	Germany - between 50° 20' N and 52° 20' N
DHDN_To_WGS_1984_5x	108208	Germany - N of 52° 20' N

DHDN_To_WGS_1984_6x	108209	Germany - Thuringen
DHDN_To_WGS_1984_7x	108210	Germany - Sachsen
Dominica_1945_To_WGS_1984	1442	Dominica
DOS_1968_To_WGS_1984	108259	New Georgia Islands - Gizo
DOS_71_4_To_WGS_1984	15798	St. Helena Island
Douala_1948_To_WGS_1984_1	15873	Cameroon - coastal area
Easter_Island_1967_To_WGS_1984	15806	Easter Island
ED_1950_ED77_To_WGS_1984	1514	Iran
ED_1950_ED77_To_WGS_1984_2	1141	Iran
ED_1950_ED77_To_WGS_1984_3	1856	Iran - South Pars field blocks 2 & 3
ED_1950_ED77_To_WGS_1984_4	1857	Iran - Lavan Island & Balal field
ED_1950_ED77_To_WGS_1984_5	1858	Iran - Kharg Island
ED_1950_ED77_To_WGS_1984_6	15745	Iran - South Pars field phase 11
ED_1950_To_ED_1987_2	1147	Norway - offshore north of 65° N
ED_1950_To_ETRS_1989_1	1588	Norway -offshore N of 65° N Svalbard and Jan Mayen Islands
ED_1950_To_ETRS_1989_4	1626	Denmark
ED_1950_To_ETRS_1989_5	1628	Gibraltar
ED_1950_To_ETRS_1989_6	1630	Spain - Balearic Islands
ED_1950_To_ETRS_1989_7	1632	Spain - mainland except NW (N of 41° 30' N, W of 4° 30' W)
ED_1950_To_ETRS_1989_8	1634	Spain - Northwest (N of 41° 30' N, W of 4° 30' W)
ED_1950_To_ETRS_1989_9	1783	Turkey
ED_1950_To_ETRS_1989_10	1650	France
ED_1950_To_ETRS_1989_12_NTv2_Spain_v2	15932	Spain - mainland and Balearic Islands.
ED_1950_To_WGS_1984_1	1133	Austria, Belgium, Denmark, Finland, France, Germany (West), Gibraltar, Greece, Italy, Luxembourg, Netherlands, Norway, Spain, Sweden, Switzerland, and Portugal
ED_1950_To_WGS_1984_2	1134	Austria, Denmark, France, Germany (West), Netherlands, and Switzerland
ED_1950_To_WGS_1984_3	1135	Iraq, Israel, Jordan, Kuwait, Lebanon, Saudi Arabia, and Syria
ED_1950_To_WGS_1984_4	1136	Cyprus
ED_1950_To_WGS_1984_5	1137	Egypt
ED_1950_To_WGS_1984_6	1138	Ireland, United Kingdom
ED_1950_To_WGS_1984_7	1139	Finland, Norway
ED_1950_To_WGS_1984_8	1140	Greece
ED_1950_To_WGS_1984_9	108275	Iran
ED_1950_To_WGS_1984_10	1142	Italy - Sardinia
ED_1950_To_WGS_1984_11	1143	Italy - Sicily
ED_1950_To_WGS_1984_12	1144	Malta
ED_1950_To_WGS_1984_13	1145	Portugal, Spain
ED_1950_To_WGS_1984_16	1245	Tunisia
ED_1950_To_WGS_1984_17	1275	France
ED_1950_To_WGS_1984_18	1311	UK - offshore E of 6W

ED_1950_To_WGS_1984_19	1440	Greece
ED_1950_To_WGS_1984_23	1612	Norway -offshore N of 62N Svalbard and Jan Mayen Islands
ED_1950_To_WGS_1984_24	1613	Norway -offshore S of 62N
ED_1950_To_WGS_1984_25	1627	Denmark
ED_1950_To_WGS_1984_26	1629	Gibraltar
ED_1950_To_WGS_1984_27	1631	Spain - Balearic Islands
ED_1950_To_WGS_1984_28	1633	Spain - mainland except NW (N of 41° 30' N, W of 4° 30' W)
ED_1950_To_WGS_1984_29	1635	Spain - Northwest (N of 41° 30' N, W of 4° 30' W)
ED_1950_To_WGS_1984_30	1784	Turkey
ED_1950_To_WGS_1984_31	1810	Egypt - western desert
ED_1950_To_WGS_1984_32	1999	Netherlands - offshore, North Sea
ED_1950_To_WGS_1984_34	1989	Portugal
ED_1950_To_WGS_1984_36	1998	Germany - offshore, North Sea
ED_1950_To_WGS_1984_37	1087	Jordan
ED_1950_To_WGS_1984_38	1075	Israel and Palestine - offshore Mediterranean Sea
ED_1950_To_WGS_1984_39	1853	Ireland - offshore - Corrib and Errigal fields
ED_1950_To_WGS_1984_41_NTv2_Spain_v2	15933	Spain - mainland and Balearic Islands.
ED_1950_To_WGS_1984_PT3	108111	Portugal
ED_1950_To_WGS_1984_PT7	108121	Portugal
ED_1987_To_WGS_1984_1	1146	North Sea south of 62° N (UK,Denmark,Germany, Norway) and Netherlands (offshore)
ED_1987_To_WGS_1984_2	1960	Europe - west
Egypt_1907_To_WGS_1972	1545	Egypt
Egypt_1907_To_WGS_1984	1148	Egypt
Egypt_1907_To_WGS_1984_3	1546	Egypt - Gulf of Suez
Egypt_Gulf_of_Suez_S-650_TL_To_WGS_1972_BE_1	15792	Egypt - Gulf of Suez
Egypt_Gulf_of_Suez_S-650_TL_To_WGS_1984_2	15846	Egypt - Gulf of Suez
ELD_1979_To_LGD2006_1	15924	Libya - onshore
ELD_1979_To_WGS_1984_1	1859	Libya - Murzuq field
ELD_1979_To_WGS_1984_2	1860	Libya - Murzuq field
ELD_1979_To_WGS_1984_3	1861	Libya - Mabruk field
ELD_1979_To_WGS_1984_4	1862	Libya - Mabruk field
ELD_1979_To_WGS_1984_5	1863	Libya - Mabruk field
ELD_1979_To_WGS_1984_6	15707	Libya - Amal field
ELD_1979_To_WGS_1984_7	15778	Libya - Sirte Basin licence NC192
ELD_1979_To_WGS_1984_8	15909	Libya - onshore
ELD_1979_To_WGS_1984_9	15923	Libya - Cyrenaica area 42, blocks 2 and 4
Estonia_1937_To_ETRS_1989	108272	Estonia
Estonia_1937_To_WGS_1984_NGA	108261	Estonia
Estonia_1992_To_ETRS_1989	1331	Estonia
Estonia_1992_To_WGS_1984	1333	Estonia

Estonia_1997_To_ETRS_1989_1	1648	Estonia
Estonia_1997_To_WGS_1984_1	1649	Estonia
ETRF_1989_To_WGS_1984	108195	Europe
ETRS_1989_To_WGS_1984	1149	Europe
EUREF_FIN_To_ETRS_1989	108226	Finland
EUREF_FIN_To_WGS_1984	108227	Finland
European_1950_To_WGS_1984_33	1985	Portugal
European_1979_To_WGS_1984	15752	Europe - Austria, Finland, Netherlands, Norway, Spain, Sweden, & Switzerland
Fahud_To_WGS_1984	1256	Oman
Fahud_To_WGS_1984_2	1438	Oman
Fatu_Iva_1972_To_RGPF_1	15760	French Polynesia - Marquises Islands - Fatu Iva
Fatu_Iva_1972_To_WGS_1984_1	15772	French Polynesia - Marquises Islands - Fatu Iva
FD_1954_To_ED_1950_1	15866	Faroe Islands, onshore
FD_1958_To_WGS_1984	1513	Iran - Kangan District
FD_1958_To_WGS_1984_2	1854	Lavan Island & Balal field
FD_1958_To_WGS_1984_3	1855	Kharg Island
Fiji_1956_To_WGS_1984_1	15875	Fiji - Viti Levu, Vanua Levu, Taveuni, and immediately adjacent smaller islands
Fiji_1986_To_WGS_1984_1	15876	Fiji - Includes Viti Levu, Vanua Levu, Taveuni, Yasawa Group, Kadavu Group, Lau Islands, and Rotuma Islands
Fiji_1986_To_WGS_1984_2	15877	Fiji - Viti Levu, Vanua Levu, Taveuni, and immediately adjacent smaller islands
Fort_Desaix_To_WGS_1984_1	1909	Martinique
Fort_Desaix_To_WGS_1984_2	1910	Martinique
Fort_Marigot_To_WGS_1984_1	1903	Guadeloupe - St. Martin & St. Barthelemy islands
Fort_Thomas_1955_To_WGS_1984	108262	Leeward Islands - Nevis & St. Kitts
Gan_1970_To_WGS_1984_1	15713	Maldives
Gandajika_1970_To_WGS_1984_1	1894	Maldives
Garoua_To_WGS_1972_BE_1	1805	Cameroon - Garoua area
GDA_1994_To_WGS_1984	1150	Australia
GGRS_1987_To_WGS_1984	1272	Greece
Graciosa_Base_SW_1948_To_WGS_1984_1	108112	Azores - Faial, Graciosa, Pico, Sao Jorge, & Terceira Islands
Graciosa_Base_SW_1948_To_WGS_1984_2	108122	Azores - Faial, Graciosa, Pico, Sao Jorge, & Terceira Islands
Grand_Cayman_1959_To_WGS_1984_1	15830	Cayman Islands - Grand Cayman
Greek_Athens_To_Greek	1761	Greece
Greenland_1996_To_WGS_1984_1	15879	Greenland - onshore and offshore
Grenada_1953_To_WGS_1984	1443	Grenada
Guam_1963_To_HARN_Guam	1068	Guam - HARN
Guam_1963_To_HARN_Marianas_Rota	108137	Rota Island - Northern Mariana Islands
Guam_1963_To_HARN_Marianas_Saipan	108138	Saipan Island - Northern Mariana Islands
Guam_1963_To_HARN_Marianas_Tinian_Aguijan	108139	Tinian and Aguijan Island Northern Mariana Islands

Guam_1963_To_NAD_1983_HARN_Rota	108305	Rota Is. (HARN method) N. Mariana Islands
Guam_1963_To_NAD_1983_HARN_Saipan	108304	Saipan Island - Northern Mariana Islands
Guam_1963_To_WGS_1984_1	1070	Guam
Guam_1963_To_WGS_1984_2	1069	Guam - HARN
Guam_1963_To_WGS_1984_Saipan	108299	Saipan Island - Northern Mariana Islands
Gulshan_303_To_WGS_1984_1	15779	Bangladesh
Gunung_Segara_Jakarta_To_Gunung_Segara	1883	Indonesia
Gunung_Segara_To_WGS_1984_1	1897	Indonesia - Kalimantan
Gunung_Segara_To_WGS_1984_2	1898	Indonesia - east Kalimantan
Gunung_Segara_To_WGS_1984_3	1899	Indonesia - northeast Kalimantan
Gunung_Segara_To_WGS_1984_4	1838	Indonesia - east Kalimantan - Mahakam delta area
GUX_1_To_WGS_1984	108263	Guadalcanal Island
Hanoi_1972_To_WGS_1984	1544	Vietnam - Meekong delta
Hartebeesthoek94_To_WGS_1984	1505	South Africa
Helle_1954_To_WGS_1984_1	1957	Jan Mayen (Norway)
Herat_North_To_WGS_1984	1246	Afghanistan
Hermannskogel_To_WGS_1984	108264	Bosnia & Herzegovina, Croatia, Serbia, Slovenia, & Yugoslavia (prior to 1990)
Hito_XVIII_1963_To_WGS_1984	1529	Argentina - Tierra del Fuego
Hito_XVIII_1963_To_WGS_1984_2	1892	Chile - Tierra del Fuego
Hjorsey_1955_To_WGS_1984	1951	Iceland
Hong_Kong_1963_67_To_WGS_1984	15842	Hong Kong
Hong_Kong_1980_To_WGS_1984_1	1825	China - Hong Kong
Hu_Tzu_Shan_To_WGS_1984	1152	Taiwan
Hungarian_1972_To_ETRS_1989_1	1829	Hungary
Hungarian_1972_To_WGS_1984_1	1830	Hungary
Hungarian_1972_To_WGS_1984_2	1831	Hungary
IGCB_1955_To_WGS_1984_1	15787	The Democratic Republic of the Congo (Zaire) - Lower Congo (Bas Congo)
IGM_1995_To_ETRS_1989_1	1098	Italy
IGM_1995_To_WGS_1984_1	1099	Italy
IGN53_Mare_To_RGNC_1991-93_1	15884	New Caledonia - Loyalty Islands - Mare
IGN53_Mare_To_RGNC_1991-93_2	15891	New Caledonia - Loyalty Islands - Mare
IGN53_Mare_To_WGS_1984_1	1928	New Caledonia - Mare
IGN53_Mare_To_WGS_1984_2	15783	New Caledonia - Mare
IGN53_Mare_To_WGS_1984_3	15901	New Caledonia - Loyalty Islands - Mare
IGN56_Lifou_To_RGNC_1991-93_1	15883	New Caledonia - Loyalty Islands - Lifou
IGN56_Lifou_To_RGNC_1991-93_2	15890	New Caledonia - Loyalty Islands - Lifou
IGN56_Lifou_To_WGS_1984_1	1917	New Caledonia - Lifou
IGN56_Lifou_To_WGS_1984_2	1927	New Caledonia - Lifou
IGN56_Lifou_To_WGS_1984_3	15902	New Caledonia - Loyalty Islands - Lifou
IGN63_Hiva_Oa_To_RGPF_1	15761	French Polynesia - Marques Islands - Hiva Oa
IGN63_Hiva_Oa_To_RGPF_2	15762	French Polynesia - Marques Islands - Tahuata

IGN63_Hiva_Oa_To_WGS_1984_1	15773	French Polynesia - Marqueses Islands - Hiva Oa
IGN63_Hiva_Oa_To_WGS_1984_2	15774	French Polynesia - Marqueses Islands - Tahuata
IGN72_Grande_Terre_To_RGNC_1991-93_1	15882	New Caledonia - Grande Terre
IGN72_Grande_Terre_To_RGNC_1991-93_2	15887	New Caledonia - Grande Terre
IGN72_Grande_Terre_To_RGNC_1991-93_3	15888	New Caledonia - Grande Terre - Noumea district
IGN72_Grande_Terre_To_WGS_1984_1	1962	New Caledonia - Grande Terre
IGN72_Grande_Terre_To_WGS_1984_2	1963	New Caledonia - Grande Terre
IGN72_Grande_Terre_To_WGS_1984_3	15903	New Caledonia - Grande Terre
IGN72_Nuku_Hiva_To_RGPF_1	15763	French Polynesia - Marqueses Islands - Nuku Hiva
IGN72_Nuku_Hiva_To_RGPF_2	15764	French Polynesia - Marqueses Islands - Ua Huka
IGN72_Nuku_Hiva_To_RGPF_3	15765	French Polynesia - Marqueses Islands - Ua Pou
IGN72_Nuku_Hiva_To_WGS_1984_1	1914	French Polynesia - Marqueses - Nuku Hiva
IGN72_Nuku_Hiva_To_WGS_1984_2	15775	French Polynesia - Marqueses Islands - Nuku Hiva
IGN72_Nuku_Hiva_To_WGS_1984_3	15776	French Polynesia - Marqueses Islands - Ua Huka
IGN72_Nuku_Hiva_To_WGS_1984_4	15777	French Polynesia - Marqueses Islands - Ua Pou
IKBD_1992_To_WGS_1984_1	1993	Iraq-Kuwait Boundary
Indian_1954_To_WGS_1984	1153	Thailand, Vietnam
Indian_1960_To_WGS_1972_BE	1541	Vietnam - offshore
Indian_1960_To_WGS_1984_1	8532	Vietnam - offshore
Indian_1960_To_WGS_1984_2	1542	Vietnam near 16N
Indian_1960_To_WGS_1984_3	1543	Vietnam - Con Son island
Indian_1975_To_WGS_1984	1154	Thailand
Indian_1975_To_WGS_1984_2	1304	Thailand
Indian_1975_To_WGS_1984_3	1537	Thailand - Bongkot field
Indian_1975_To_WGS_1984_4	1812	Thailand
Indonesian_1974_To_DGN_1995_1	15911	Indonesia
Indonesian_1974_To_WGS_1984	1248	Indonesia
Indonesian_1974_To_WGS_1984_2	1832	Indonesia
Indonesian_1974_To_WGS_1984_3	1833	Indonesia
IRENET95_To_ETRS_1989	1611	Northern Ireland
IRENET95_To_WGS_1984_1	1678	Ireland
ISN_1993_To_WGS_1984_1	1952	Iceland
Israel_To_WGS_1984	1073	Israel
ISTS_061_1968_To_WGS_1984	15813	South Georgia Islands
ISTS_073_1969_To_WGS_1984	15808	Diego Garcia
ITRF_1988_To_ITRF_2000_1	1943	World
ITRF_1989_To_ITRF_2000_1	1942	World
ITRF_1990_To_ITRF_2000_1	1941	World
ITRF_1991_To_ITRF_2000_1	1940	World
ITRF_1992_To_ITRF_2000_1	1939	World
ITRF_1993_To_ITRF_2000_1	1938	World

ITRF_1994_To_ITRF_2000_1	1937	World
ITRF_1996_To_ITRF_2000_1	1936	World
ITRF_1997_To_ITRF_2000_1	1935	World
ITRF_2000_To_ITRF_2005_1	15698	World
ITRF_2000_To_NAD_1983_HARN	108281	United States - CORS96
ITRF_2000_To_WGS_1984	108280	United States
JAD_2001_To_WGS_1984	15925	Jamaica
Jamaica_1969_To_JAD_2001_1	15926	Jamaica - onshore
Jamaica_1969_To_WGS_1972_1	10086	Jamaica - onshore and offshore. Includes Morant Cays and Pedro Cays
Jamaica_1969_To_WGS_1972_2	1083	Jamaica
Jamaica_1969_To_WGS_1984_1	1084	Jamaica
Jamaica_1969_To_WGS_1984_2	1085	Jamaica
Jamaica_1969_To_WGS_1984_3	15927	Jamaica
JGD_2000_To_WGS_1984	108107	Japan
JGD_2000_To_WGS_1984_1	1826	Japan
Johnston_Island_1961_To_WGS_1984	15809	Johnston Island
Jordan_To_WGS_1984	108233	Jordan
Jouik_1961_To_WGS_1984_1	15870	Mauritania - coastal area north of Cape Timiris.
K0_1949_To_WGS_1984_1	1915	Kerguelen Island
Kalianpur_1937_To_WGS_1984_1	1155	Bangladesh
Kalianpur_1937_To_WGS_1984_2	1533	Myanmar - Moattama area
Kalianpur_1962_To_WGS_1984_1	1247	Pakistan
Kalianpur_1962_To_WGS_1984_2	15701	Pakistan - offshore Indus fan
Kalianpur_1962_To_WGS_1984_3	15702	Pakistan - Badin and Mehran blocks
Kalianpur_1962_To_WGS_1984_4	15703	Pakistan - Karachi
Kalianpur_1962_To_WGS_1984_5	15704	Pakistan - East Sind
Kalianpur_1975_To_WGS_1984_1	1156	India, Nepal
Kandawala_To_WGS_1984	1157	Sri Lanka
Karbala_1979_PolSERVICE_To_WGS_1984_1	15872	Iraq - southeast (Basra area)
Kerguelen_Island_1949_To_WGS_1984_1	15850	French Southern Territories - Kerguelen Island
Kertau_To_WGS_1984	1158	West Malaysia, Singapore
KKJ_To_ETRS_1989_1_Old	1638	Finland
KKJ_To_ETRS_1989_2	10098	Finland - onshore and offshore
KKJ_To_EUREF_FIN	108229	Finland
KKJ_To_WGS_1984_1_Old	1639	Finland
KKJ_To_WGS_1984_2_JHS153	10099	Finland - onshore and offshore (JHS153)
KOC_To_WGS_1984_1	1059	Kuwait
Korea_2000_To_WGS_1984_1	15831	Republic of Korea (South Korea) - onshore and offshore
Korean_1995_To_WGS_1984_1	1558	Republic of Korea
Kousseri_To_WGS_1972_BE_1	1806	Cameroon - N'Djamena area
KUDAMS_To_WGS_1984_1	1061	Kuwait

KUDAMS_To_WGS_1984_2	1062	Kuwait
Kusaie_1951_To_WGS_1984	15810	Fed. States of Micronesia - Caroline Islands
La_Canoa_To_REGVEN_1	1771	Venezuela
La_Canoa_To_SIRGAS	108217	Venezuela
La_Canoa_To_WGS_1984	1516	Venezuela - Delta Amacuro, Anzoategui, Bolivar, Monagas, Sucre States
La_Canoa_To_WGS_1984_2	1096	Venezuela
Lao_1993_To_Lao_1997_1	1064	Lao People's Democratic Republic
Lao_1997_To_WGS_1984_1	1065	Lao People's Democratic Republic
LC5_1961_To_WGS_1984	108268	Cayman Brac Island
Le_Pouce_1934_To_WGS_1984_1	15784	Mauritius - mainland onshore
Leigon_To_WGS_1984	1159	Ghana
LGD2006_To_WGS_1984_1	15908	Libya - onshore and offshore
Liberia_1964_To_WGS_1984	1160	Liberia
Lisbon_1890_Lisbon_To_Lisbon	1991	Lisbon 1890 Lisbon to Lisbon 1890
Lisbon_1890_To_WGS_1984_1	1986	Portugal
Lisbon_1890_To_WGS_1984_2	1990	Portugal
Lisbon_Lisbon_To_Lisbon	1756	Lisbon (Lisbon) to Lisbon
Lisbon_To_ETRS_1989_1	1655	Portugal
Lisbon_To_ETRS_1989_2	1997	Portugal
Lisbon_To_WGS_1984_2	1944	Portugal - onshore
Lisbon_To_WGS_1984_3	1984	Portugal
Lisbon_To_WGS_1984_4	1988	Portugal
Little_Cayman_1961_To_WGS_1984_1	15814	Cayman Islands - Little Cayman and Cayman Brac
Little_Cayman_1961_To_WGS_1984_2	15829	Cayman Islands - Little Cayman and Cayman Brac
LKS_1992_To_WGS_1984_1	1958	Latvia
LKS_1994_To_WGS_1984	1283	Lithuania
Locodjo_1965_To_WGS_1984	1469	Cote d'Ivoire
Luxembourg_1930_To_ETRS_1989_1	1642	Luxembourg
Luxembourg_1930_To_ETRS_1989_2	1078	Luxembourg
Luxembourg_1930_To_WGS_1984_1	1643	Luxembourg
Luxembourg_1930_To_WGS_1984_2	1079	Luxembourg
Luzon_1911_To_WGS_1984_1	1161	Philippines (excluding Mindanao)
Luzon_1911_To_WGS_1984_2	1162	Philippines (Mindanao)
MAGNA_To_SIRGAS	108290	Colombia
MAGNA_To_WGS_1984_1	15738	Colombia - onshore and offshore. Includes San Andres y Providencia, Malpelo Islands; Roncador, Serrana and Serranilla Banks
Mahe_1971_To_WGS_1984	1164	Mahe Island
Majuro_To_NAD_1983	108135	Majuro - Republic of Marshall Islands
Makassar_Jakarta_To_Makassar	1260	Makassar (Jakarta) to Makassar
Makassar_To_WGS_1984_1	1837	Indonesia - southwest Sulawesi
Malongo_1987_To_WGS_1984_1	1330	Angola - Cabinda offshore

Malongo_1987_To_WGS_1984_2	1557	Angola - Cabinda offshore
Malongo_1987_To_WGS_1984_3	15791	Africa - Angola (Cabinda) - onshore and offshore; The Democratic Republic of the Congo (Zaire) - onshore coastal area and offshore
Malongo_To_Mhast_1	1328	Angola - Cabinda offshore
Manoca_1962_To_WGS_1972_BE_1	1902	Cameroon
Manoca_1962_To_WGS_1984_1	1796	Cameroon - coastal area
Manoca_To_WGS_1984_1	1316	Cameroon
Massawa_To_WGS_1984	1165	Ethiopia (Eritrea)
Maupiti_1983_To_RGPF_1	15759	French Polynesia - Society Islands - Maupiti
Maupiti_1983_To_WGS_1984_1	15771	French Polynesia - Society Islands - Maupiti
Mauritania_1999_To_WGS_1984_1	15860	Mauritania - onshore and offshore
Merchich_Degree_To_WGS_1984	108279	Morocco
Merchich_To_WGS_1984	1166	Morocco
MGI_Ferro_To_MGI	1757	Austria
MGI_Ferro_To_WGS_1984	8263	Croatia, Slovenia, Bosnia and Herzegovina, & Serbia
MGI_To_ETRS_1989_1	1619	Austria
MGI_To_ETRS_1989_2	1620	Croatia
MGI_To_ETRS_1989_3	1785	Slovenia
MGI_To_WGS_1984	1306	Bosnia and Herzegovina, Croatia, Serbia, Slovenia
MGI_To_WGS_1984_2	8415	Austria
MGI_To_WGS_1984_3	1618	Austria
MGI_To_WGS_1984_4	1621	Croatia
MGI_To_WGS_1984_5	1786	Slovenia
MGI_To_WGS_1984_6	1794	Yugoslavia - Montenegro
MGI_To_WGS_1984_7	1795	Yugoslavia - Montenegro
Mhast_offshore_To_WGS_1972_BE_1	15790	Africa - Angola (Cabinda) - offshore; The Democratic Republic of the Congo (Zaire) - offshore
Mhast_To_WGS_1984_1	1329	Angola - Cabinda offshore
Midway_1961_To_WGS_1984	15818	Midway Island
Midway_1961_To_WGS_1984_Old	15817	Midway Island
Minna_To_WGS_1984_1	1167	Cameroon
Minna_To_WGS_1984_2	1168	Nigeria
Minna_To_WGS_1984_3	1754	Nigeria - south
Minna_To_WGS_1984_4	1818	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_6	1820	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_7	1821	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_8	1822	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_9	1823	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_10	1824	Nigeria - south
Minna_To_WGS_1984_11	1067	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_12	15705	Cameroon - onshore

Minna_To_WGS_1984_13	15706	Nigeria - offshore beyond continental shelf
Minna_To_WGS_1984_14	15755	Nigeria - block OML 58
MONREF_1997_To_MSK_1942_1	108286	Mongolia
MONREF_1997_To_MSK_1942_2	108287	Mongolia
MONREF_1997_To_Pulkovo_1942_1	108288	Mongolia
MONREF_1997_To_Pulkovo_1942_2	108289	Mongolia
Monte_Mario_Rome_To_Monte_Mario	1262	Italy
Monte_Mario_Rome_To_WGS_1984	8175	Italy
Monte_Mario_To_ETRS_1989_1	1659	Italy - mainland
Monte_Mario_To_ETRS_1989_2	1661	Italy - Sardinia
Monte_Mario_To_ETRS_1989_3	1663	Italy - Sicily
Monte_Mario_To_WGS_1984	1169	Italy - Sardinia
Monte_Mario_To_WGS_1984_2	1662	Italy - Sardinia
Monte_Mario_To_WGS_1984_3	1664	Italy - Sicily
Monte_Mario_To_WGS_1984_4	1660	Italy - mainland
Monte_Mario_To_WGS_1984_5	1088	Italy - offshore - Adriatic Sea - North Ancona
Monte_Mario_To_WGS_1984_6	1089	Italy - offshore - Adriatic Sea - South Ancona and North Gargano
Monte_Mario_To_WGS_1984_7	1090	Italy - offshore - Adriatic Sea - South Gargano
Monte_Mario_To_WGS_1984_8	1091	Italy - offshore - Otranto channel
Monte_Mario_To_WGS_1984_9	1092	Italy - offshore - north Jonian sea
Monte_Mario_To_WGS_1984_10	1093	Italy - offshore - Strait of Sicily- E of 13° E
Monte_Mario_To_WGS_1984_11	1094	Italy - offshore - Strait of Sicily- W of 13° E
Montserrat_1958_To_WGS_1984	1444	Montserrat
Moorea_1987_To_RGPF_1	15757	French Polynesia - Society Islands - Moorea
Moorea_1987_To_WGS_1984_1	15769	French Polynesia - Society Islands - Moorea
MOP78_To_WGS_1984_1	1925	Wallis and Futuna - Wallis
MOP78_To_WGS_1984_2	15847	Wallis and Futuna - Wallis
Moznet_To_WGS_1984	1302	Mozambique
Mporaloko_To_WGS_1984	1163	Gabon
Mporaloko_To_WGS_1984_2	1532	Gabon
NAD_1927_CGQ77_To_NAD_1983_2	1575	Canada - Quebec
NAD_1927_CGQ77_To_NAD_1983_CSRS	1845	Canada - Quebec
NAD_1927_CGQ77_To_WGS_1984_3	1691	Canada - Quebec
NAD_1927_DEF_1976_To_NAD_1983_NTV2_Ontario	1463	Canada - Ontario
NAD_1927_DEF_1976_To_WGS_1984_1	1690	Canada - Ontario
NAD_1927_To_NAD_1983_6	1573	Canada - Quebec
NAD_1927_To_NAD_1983_Alaska	1243	United States - Alaska
NAD_1927_To_NAD_1983_CSRS_1	1844	Canada - Quebec
NAD_1927_To_NAD_1983_CSRS_2	1847	Canada - Saskatchewan
NAD_1927_To_NAD_1983_NADCON	1241	United States - lower 48 states
NAD_1927_To_NAD_1983_NTV2_Canada	1313	Canada

NAD_1927_To_NAD_1983_PR_VI	108003	Puerto Rico and Virgin Islands
NAD_1927_To_WGS_1984_1	1170	Antigua, Barbados Barbuda, Caicos Islands, Cuba, Dominican Republic, Grand Cayman, Jamaica, and Turks Islands
NAD_1927_To_WGS_1984_2	1171	Belize, Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua
NAD_1927_To_WGS_1984_3	1172	Canada
NAD_1927_To_WGS_1984_4	1173	United States - lower 48 states
NAD_1927_To_WGS_1984_5	1174	United States - contiguous states east of Mississippi R. incl. MN, MO, and LA
NAD_1927_To_WGS_1984_6	1175	United States - contiguous states west of Mississippi River
NAD_1927_To_WGS_1984_7	1176	United States - Alaska
NAD_1927_To_WGS_1984_8	1177	Bahamas (except San Salvador Island)
NAD_1927_To_WGS_1984_9	1178	Bahamas (San Salvador Island)
NAD_1927_To_WGS_1984_10	1179	Canada - Alberta, British Columbia
NAD_1927_To_WGS_1984_11	1180	Canada - Manitoba, Ontario
NAD_1927_To_WGS_1984_12	1181	Canada - New Brunswick, Newfoundland, Nova Scotia, and Quebec
NAD_1927_To_WGS_1984_13	1182	Canada - Northwest Territories, Saskatchewan
NAD_1927_To_WGS_1984_14	1183	Canada - Yukon
NAD_1927_To_WGS_1984_15	1184	Panama (Canal Zone)
NAD_1927_To_WGS_1984_16	1185	Cuba
NAD_1927_To_WGS_1984_17	1186	Greenland - Hayes Peninsula
NAD_1927_To_WGS_1984_18	1187	Mexico
NAD_1927_To_WGS_1984_21	1249	United States - Alaska - Aleutians East of 180E
NAD_1927_To_WGS_1984_22	1250	United States - Alaska - Aleutians West of 180E
NAD_1927_To_WGS_1984_30	1530	Cuba
NAD_1927_To_WGS_1984_32	1703	Canada - Saskatchewan
NAD_1927_To_WGS_1984_33	1693	Canada
NAD_1927_To_WGS_1984_34	1692	Canada - Quebec
NAD_1927_To_WGS_1984_79_CONUS	15851	United States - lower 48 states
NAD_1927_To_WGS_1984_83	15855	Gulf of Mexico - Tampico area
NAD_1927_To_WGS_1984_85	15864	Alaska
NAD_1927_To_WGS_1984_86	15913	Mexico - offshore Gulf of Mexico - Bay of Campeche northeast
NAD_1927_To_WGS_1984_87	15699	Mexico - offshore Gulf of Mexico - Bay of Campeche southeast
NAD_1983_CSRS_To_WGS_1984	1473	Canada - New Brunswick
NAD_1983_CSRS_To_WGS_1984_1	1842	Canada
NAD_1983_CSRS_To_WGS_1984_2	1946	Canada
NAD_1983_HARN_PACP00_MARP00_To_WGS_1984	108307	NAD 1983 HARN Pacific Plate and Marianas Plate 2000 to WGS_1984
NAD_1983_HARN_To_NAD_1983_NSRS2007_1	15930	United States - lower 48 states
NAD_1983_HARN_To_WGS_1984	1580	United States
NAD_1983_HARN_To_WGS_1984_2	1900	United States - lower 48 states
NAD_1983_HARN_To_WGS_1984_3	1901	United States - lower 48 states
NAD_1983_HARN_To_WGS_1984_Saipan	108300	Saipan Island - Northern Mariana Islands
NAD_1983_NSRS2007_To_WGS_1984_1	15931	United States - lower 48 states

NAD_1983_To_HARN_Alabama	1474	Alabama HARN
NAD_1983_To_HARN_Arizona	1475	Arizona HARN
NAD_1983_To_HARN_Arkansas	1704	Arkansas HARN
NAD_1983_To_HARN_CA_N	1476	California North HARN - above 36N
NAD_1983_To_HARN_CA_S	1477	California South HARN - below 37N
NAD_1983_To_HARN_Colorado	1478	Colorado HARN
NAD_1983_To_HARN_East_MT_ID	1481	Montana & Idaho HARN - E of 113W
NAD_1983_To_HARN_East_Texas	1498	Texas HARN - E of 100W
NAD_1983_To_HARN_Florida	1480	Florida HARN
NAD_1983_To_HARN_Georgia	1479	Georgia HARN
NAD_1983_To_HARN_Hawaii	1520	Hawai'i HARN
NAD_1983_To_HARN_Illinois	1553	Illinois HARN
NAD_1983_To_HARN_Indiana	1521	Indiana HARN
NAD_1983_To_HARN_Iowa	1705	Iowa HARN
NAD_1983_To_HARN_Kansas	1522	Kansas HARN
NAD_1983_To_HARN_Kentucky	1483	Kentucky HARN
NAD_1983_To_HARN_Louisiana	1484	Louisiana HARN
NAD_1983_To_HARN_Maine	1486	Maine HARN
NAD_1983_To_HARN_MD_DE	1485	Maryland & Delaware HARN
NAD_1983_To_HARN_Michigan	1487	Michigan HARN
NAD_1983_To_HARN_Minnesota	1706	Minnesota HARN
NAD_1983_To_HARN_Mississippi	1488	Mississippi HARN
NAD_1983_To_HARN_Missouri	1707	Missouri HARN
NAD_1983_To_HARN_Nebraska	1489	Nebraska HARN
NAD_1983_To_HARN_Nevada	1523	Nevada HARN
NAD_1983_To_HARN_New_England	1490	New England -CT,MA,NH,RI,VT HARN
NAD_1983_To_HARN_New_Jersey	1554	New Jersey HARN
NAD_1983_To_HARN_New_Mexico	1491	New Mexico HARN
NAD_1983_To_HARN_New_York	1492	New York HARN
NAD_1983_To_HARN_North_Carolina	15834	North Carolina
NAD_1983_To_HARN_North_Dakota	1493	North Dakota HARN
NAD_1983_To_HARN_Ohio	1524	Ohio HARN
NAD_1983_To_HARN_Oklahoma	1494	Oklahoma HARN
NAD_1983_To_HARN_OR_WA	108291	Washington & Oregon HARN
NAD_1983_To_HARN_Pennsylvania	15838	Pennsylvania HARN
NAD_1983_To_HARN_PR_VI	1495	Puerto Rico & Virgin Islands HARN
NAD_1983_To_HARN_South_Carolina	15836	South Carolina HARN
NAD_1983_To_HARN_South_Dakota	1496	South Dakota HARN
NAD_1983_To_HARN_Tennessee	1497	Tennessee HARN
NAD_1983_To_HARN_Utah	1525	Utah HARN
NAD_1983_To_HARN_Virginia	1500	Virginia HARN

NAD_1983_To_HARN_WA_OR	1501	Washington & Oregon HARN
NAD_1983_To_HARN_West_MT_ID	1482	Montana & Idaho HARN - W of 113W
NAD_1983_To_HARN_West_Texas	1499	Texas HARN - W of 100W
NAD_1983_To_HARN_West_Virginia	1526	West Virginia HARN
NAD_1983_To_HARN_Wisconsin	1502	Wisconsin HARN
NAD_1983_To_HARN_Wyoming	1503	Wyoming HARN
NAD_1983_To_NAD_1983_CSRS_1	1843	Canada - Quebec
NAD_1983_To_NAD_1983_CSRS_2	1848	Canada - Saskatchewan
NAD_1983_To_NAD_1983_CSRS_3	1849	Canada - Alberta
NAD_1983_To_NAD_1983_CSRS_4	1950	Canada - Newfoundland, New Brunswick, & Nova Scotia offshore
NAD_1983_To_WGS_1984_1	1188	Canada, Central America, Mexico, and United States (Alaska, CONUS)
NAD_1983_To_WGS_1984_2	1251	United States - Alaska - Aleutians
NAD_1983_To_WGS_1984_3	1252	United States - Hawai'i
NAD_1983_To_WGS_1984_4	1308	United States - CORS ITRF94
NAD_1983_To_WGS_1984_5	1515	United States - CORS ITRF96
NAD_1983_To_WGS_1984_6	1696	Canada - Quebec
NAD_1983_To_WGS_1984_7	1697	Canada - Saskatchewan
NAD_1983_To_WGS_1984_8	1702	Canada - Alberta
Nahrwan_1967_To_WGS_1984_1	1189	Oman - Nasirah Island
Nahrwan_1967_To_WGS_1984_2	1190	Saudi Arabia
Nahrwan_1967_To_WGS_1984_3	1191	United Arab Emirates
Nahrwan_1967_To_WGS_1984_4	1531	United Arab Emirates - Abu al Bu Koosh
Nahrwan_1967_To_WGS_1984_5	1536	Qatar
Nahrwan_1967_To_WGS_1984_6	15871	Iraq
Nahrwan_1967_To_WGS_1984_7	15937	United Arab Emirates - Abu Dhabi offshore
Nahrwan_1967_To_WGS_1984_8	15938	United Arab Emirates - Abu Dhabi offshore
Nahrwan_1967_To_WGS_1984_9	15952	United Arab Emirates - Dubai offshore oilfields - Falah, Fateh, Rashid
Nahrwan_1967_To_WGS_1984_10	15953	United Arab Emirates - Dubai municipality NADCON
Nakhl-e_Ghanem_To_WGS_1984_6	15746	Iran - Tombak LNG plant
Naparima_1955_To_WGS_1984_2	1555	Trinidad
Naparima_1955_To_WGS_1984_3	1556	Trinidad
Naparima_1972_To_WGS_1984	1192	Trinidad and Tobago
Naparima_1972_To_WGS_1984_2	8212	Trinidad and Tobago
Naparima_1972_To_WGS_1984_3	1307	Trinidad and Tobago
NEA74_Noumea_To_RGNC_1991-93_1	15886	New Caledonia - Grande Terre - Noumea district
NEA74_Noumea_To_RGNC_1991-93_2	15889	New Caledonia - Grande Terre - Noumea district
NEA74_Noumea_To_WGS_1984_1	1932	New Caledonia - Grande Terre - Noumea district
NEA74_Noumea_To_WGS_1984_2	15904	New Caledonia - Grande Terre - Noumea district
New_Zealand_1949_To_NZGD_2000_1_3PAR	1566	New Zealand
New_Zealand_1949_To_NZGD_2000_2_7PAR	1701	New Zealand
New_Zealand_1949_To_NZGD_2000_3_NTV2	1568	New Zealand

NGN_To_WGS_1984_1	1060	Kuwait
NGO_1948_Oslo_To_NGO_1948	1762	Norway
NGO_1948_To_ETRS_1989_1	1653	Norway - onshore
NGO_1948_To_WGS_1984	108201	Norway
NGO_1948_To_WGS_1984_1	1654	Norway
Nord_Sahara_1959_Paris_To_Nord_Sahara_1959	1882	Algeria
Nord_Sahara_1959_To_WGS_1972_BE	1560	Algeria - Hassi Messaoud area
Nord_Sahara_1959_To_WGS_1984	1253	Algeria
Nord_Sahara_1959_To_WGS_1984_2	1255	Algeria - N of 32N
Nord_Sahara_1959_To_WGS_1984_3	8562	Algeria - Hassi Messaoud
Nord_Sahara_1959_To_WGS_1984_4	1815	Algeria - District 3 (In Salah)
Nord_Sahara_1959_To_WGS_1984_5	1816	Algeria - In Amenas block
Nord_Sahara_1959_To_WGS_1984_6	1817	Algeria - Hassi Bir Reikaz
Nord_Sahara_1959_To_WGS_1984_7	15874	Algeria - Hassi Mouina license area
Nouakchott_1965_To_WGS_1984_1	15709	Mauritania - Nouakchutt
NTF_Paris_To_ED_1950	8186	France
NTF_Paris_To_NTF	1764	France
NTF_Paris_To_RGF_1993_1	108102	France
NTF_Paris_To_WGS_1972	8188	France
NTF_Paris_To_WGS_1984	8094	France
NTF_To_ED_1950	1276	France
NTF_To_ETRS_1989_1	1651	France
NTF_To_RGF_1993_1	108130	France
NTF_To_WGS_1972	1277	France
NTF_To_WGS_1984	1193	France
NZGD_1949_To_WGS_1984	1151	New Zealand
NZGD_1949_To_WGS_1984_2	1564	New Zealand
NZGD_1949_To_WGS_1984_3_NTV2	1670	New Zealand
NZGD_2000_To_WGS_1984_1	1565	New Zealand
Observ_Meteorologico_1939_To_WGS_1984_1	108116	Azores - Corvo & Flores Islands
Observatorio_Meteorologico_1965_To_WGS_1984_2	108234	Macau
Ocotepeque_1935_To_WGS_1984_3PAR	108284	Costa Rica 3 param (Stentz, NIMA)
Ocotepeque_1935_To_WGS_1984_RN	108283	Costa Rica (Registro Nacional)
Old_Hawaiian_To_NAD_1983	1454	Hawai'i
Old_Hawaiian_To_NAD_1983_HARN_Hawaii	108306	Hawai'i
Old_Hawaiian_To_WGS_1984_1	15824	Hawai'i - OHA_M - Mean
Old_Hawaiian_To_WGS_1984_2	15825	Hawai'i - OHA_A - Hawai'i
Old_Hawaiian_To_WGS_1984_3	15826	Hawai'i - OHA_B - Kauai
Old_Hawaiian_To_WGS_1984_4	15827	Hawai'i - OHA_C - Maui
Old_Hawaiian_To_WGS_1984_5	15828	Hawai'i - OHA_D - Oahu
Old_Hawaiian_To_WGS_1984_8	15840	Hawai'i

OSGB_1936_To_ED_1950_UKOOA	1315	UK - England, Scotland, Wales, N Sea
OSGB_1936_To_WGS_1984_1	1195	UK - England, Scotland, Wales, and Isle of Man
OSGB_1936_To_WGS_1984_2	1196	UK - England
OSGB_1936_To_WGS_1984_3	1197	UK - England, Wales, and Isle of Man
OSGB_1936_To_WGS_1984_4	1198	UK - Scotland, including Shetland Islands
OSGB_1936_To_WGS_1984_5	1199	UK - Wales
OSGB_1936_To_WGS_1984_Petroleum	1314	UK - England, Scotland, Wales, N Sea
OSNI_1952_To_WGS_1984_1	1955	Ireland, Northern Ireland
Padang_1884_Jakarta_To_Padang_1884	1758	Indonesia
Palestine_1923_To_Israel_1	1071	Israel
Palestine_1923_To_WGS_1984_1	1074	Israel
Palestine_1923_To_WGS_1984_1X	108220	Palestine
Palestine_1923_To_WGS_1984_2	8650	Israel
Palestine_1923_To_WGS_1984_2X	108232	Palestine
Pampa_del_Castillo_To_WGS_1984_1	15845	Argentina - Comodoro Rivadavia area
PD/83_To_ETRS_1989_1	15867	Germany - Thuringen
PD/83_To_WGS_1984_1_NTV2	15955	Germany - Thuringen
PDO_1993_To_WGS_1972	1616	Oman
PDO_1993_To_WGS_1984	1439	Oman
PDO_1993_To_WGS_1984_3	1617	Oman - Block 4
Petrels_1972_To_WGS_1984_1	1921	Antarctica - Terre Adelie
Pico_de_Las_Nieves_To_WGS_1984	15815	Canary Islands
Pitcairn_1967_To_WGS_1984	15819	Pitcairn Island
Pohnpei_To_NAD_1983	108133	Pohnpei - Fed. States of Micronesia
Pohnpei_To_WGS_1984	108303	Pohnpei - Fed. States of Micronesia
Point58_To_WGS_1984_1	1880	Burkina Faso - central; Niger - SW, near 12N
Pointe_Geologie_Perroud_1950_To_WGS_1984_1	1922	Antarctica - Terre Adelie
Pointe_Noire_To_WGS_1984	1200	Congo
Pointe_Noire_To_WGS_1984_2	1801	Congo - coastal area & offshore
Pointe_Noire_To_WGS_1984_3	1802	Congo - coastal area and offshore
Porto_Santo_1936_To_WGS_1984_1	1888	Porto Santo & Madeira Islands
Porto_Santo_1936_To_WGS_1984_1_IGP	108115	Porto Santo & Madeira Islands
Porto_Santo_1936_To_WGS_1984_2	108125	Porto Santo & Madeira Islands
Porto_Santo_1995_To_WGS_1984_2	1966	Madeira and Porto Santo islands
Porto_Santo_1995_To_WGS_1984_3	1967	Madeira and Porto Santo islands
POSGAR_1994_To_WGS_1984_1	15780	Argentina - onshore and offshore
POSGAR_1998_To_SIRGAS_1	1774	Argentina
POSGAR_1998_To_WGS_1984_1	1773	Argentina
POSGAR_To_WGS_1984_1	1598	South America
PRS_1992_To_WGS_1984_1	15708	Philippines - onshore and offshore
PSAD_1956_To_REGVEN	1769	Venezuela

PSAD_1956_To_WGS_1984_1	1201	Bolivia, Chile, Colombia, Ecuador, Guyana, Peru, and Venezuela
PSAD_1956_To_WGS_1984_2	1202	Bolivia
PSAD_1956_To_WGS_1984_3	1203	Chile - Northern, near 19S
PSAD_1956_To_WGS_1984_4	1204	Chile - Southern, near 43S
PSAD_1956_To_WGS_1984_5	1205	Colombia
PSAD_1956_To_WGS_1984_6	1206	Ecuador
PSAD_1956_To_WGS_1984_7	1207	Guyana
PSAD_1956_To_WGS_1984_8	1208	Peru
PSAD_1956_To_WGS_1984_9	1209	Venezuela
PSAD_1956_To_WGS_1984_10	1582	Bolivia - Madidi
PSAD_1956_To_WGS_1984_11	1583	Bolivia - Block 20
PSAD_1956_To_WGS_1984_12	1811	Brazil - offshore Amazon cone
PSAD_1956_To_WGS_1984_13	1095	Venezuela
Puerto_Rico_To_NAD_1983	1461	Puerto Rico and Virgin Islands
Puerto_Rico_To_WGS_1984_3	1893	Puerto Rico and Virgin Islands
Puerto_Rico_To_WGS_1984_4	15841	Puerto Rico and Virgin Islands
Pulkovo_1942_Adj_1958_To_ETRS_1989_1	1644	Poland
Pulkovo_1942_Adj_1958_To_WGS_1984_1	1645	Poland
Pulkovo_1942_Adj_1983_To_ETRS_1989_1	1674	Germany - Brandenburg, Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt, Thuringen
Pulkovo_1942_Adj_1983_To_ETRS_1989_2	1775	Germany - Brandenburg, Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt, Thuringen
Pulkovo_1942_Adj_1983_To_WGS_1984_1	1675	Germany - Brandenburg, Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt, Thuringen
Pulkovo_1942_To_Estonia_1992	1332	Estonia
Pulkovo_1942_To_ETRS_1989	1310	Germany - former E Germany
Pulkovo_1942_To_LKS_1994	1274	Lithuania
Pulkovo_1942_To_PZ_1990_1	15844	Russian Federation - onshore and offshore
Pulkovo_1942_To_WGS_1984	1254	Russia
Pulkovo_1942_To_WGS_1984_2	1679	Lithuania
Pulkovo_1942_To_WGS_1984_3	1287	Hungary
Pulkovo_1942_To_WGS_1984_4	1288	Poland
Pulkovo_1942_To_WGS_1984_5	1289	Czech Republic
Pulkovo_1942_To_WGS_1984_6	1290	Latvia
Pulkovo_1942_To_WGS_1984_7	1291	Kazakhstan
Pulkovo_1942_To_WGS_1984_8	1292	Albania
Pulkovo_1942_To_WGS_1984_9	1293	Romania
Pulkovo_1942_To_WGS_1984_10	1303	Kazakhstan - Caspian
Pulkovo_1942_To_WGS_1984_12	1334	Estonia
Pulkovo_1942_To_WGS_1984_13	1807	Azerbaijan
Pulkovo_1942_To_WGS_1984_14	1808	Azerbaijan and Georgia

Pulkovo_1942_To_WGS_1984_15	1809	Azerbaijan - coastal area Baku to Astara
Pulkovo_1942_To_WGS_1984_16	15865	Russian Federation - onshore and offshore
Pulkovo_1995_To_PZ_1990_GOST	108239	Russia
PZ_1990_To_WGS_1984_1	15843	World
PZ_1990_To_WGS_1984_GOST	108238	Russia
Qatar_1974_To_WGS_1984_1	1561	Qatar
Qatar_1974_To_WGS_1984_2	1562	Qatar - offshore
Qatar_1974_To_WGS_1984_3	1563	Qatar - onshore
QND_1995_To_WGS_1984_1	1840	Qatar
Qornoq_1927_To_WGS_1984_1	1797	Greenland - South
Qornoq_1927_To_WGS_1984_2	1798	Greenland
Qornoq_To_WGS_1984	8111	Greenland - South
Rassadiran_To_WGS_1984	1512	Iran - Tehari Refinery
RD/83_To_ETRS_1989_1	15868	Germany - Sachsen
RD/83_To_WGS_1984_1_NTV2	15954	Germany - Sachsen
REGVEN_To_SIRGAS_1	1767	Venezuela
REGVEN_To_WGS_1984_1	1768	Venezuela
Reunion_1947_To_RGR_1992_1	1926	Reunion
Reunion_1947_To_WGS_1984_1	1911	Reunion
Reunion_1947_To_WGS_1984_2	15751	Mascarene Islands - Reunion
Reykjavik_1900_To_WGS_1984_1	1994	Iceland
RGF_1993_To_ETRS_1989_1	1591	France
RGF_1993_To_NTF_NTV2	108470	France
RGF_1993_To_WGS_1984_1	1671	France
RGFG_1995_To_WGS_1984_1	1907	French Guiana
RGNC_1991_To_IGN72_Grande_Terre_NTV2	108471	New Caledonia
RGNC_1991_To_NEA74_Noumea_NTV2	108472	New Caledonia
RGNC_1991_To_WGS_1984_1	1920	New Caledonia
RGNC_1991-93_To_WGS_1984_1	15880	New Caledonia - Ile des Pins, Loyalty Islands, Huon Islands, Belep archipelago, Chesterfield Islands, and Walpole
RGPF_To_WGS_1984_1	15832	French Polynesia - Includes Society and Tuamotu archipelagos; Marquesas, Gambier, and Austral Islands; and Clipperton Island
RGPF_To_WGS_1984_2	15833	French Polynesia - Includes Society and Tuamotu archipelagos; Marquesas, Gambier, and Austral Islands; and Clipperton Island
RGR_1992_To_Reunion_1947_1	1964	Reunion
RGR_1992_To_WGS_1984_1	1912	Reunion
RRAF_1991_To_WGS_1984_1	1934	Antilles - Guadeloupe and Martinique
RT38_Stockholm_To_RT38	1760	Sweden
RT90_To_ETRS_1989_1	1437	Sweden
RT90_To_ETRS_1989_2	1787	Sweden
RT90_To_WGS_1984	1680	Sweden

RT90_To_WGS_1984_2	1896	Sweden
S_JTSK_Ferro_To_S_JTSK	1884	Czech Republic, Slovak Republic
S_JTSK_To_ETRS_1989_1	1622	Czech Republic
S_JTSK_To_ETRS_1989_2	1624	Slovak Republic
S_JTSK_To_Pulkovo_1942	108202	Czech Republic
S_JTSK_To_WGS_1984_1	1623	Czech Republic
S_JTSK_To_WGS_1984_2	1625	Slovak Republic
S_JTSK_To_WGS_1984_NGA	108270	Czechoslovakia (prior to 1993)
SAD_1969_To_WGS_1984_1	1864	Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Trinidad & Tobago, and Venezuela
SAD_1969_To_WGS_1984_2	1865	Argentina
SAD_1969_To_WGS_1984_3	1866	Bolivia
SAD_1969_To_WGS_1984_4	1867	Brazil
SAD_1969_To_WGS_1984_5	1868	Chile
SAD_1969_To_WGS_1984_6	1869	Colombia
SAD_1969_To_WGS_1984_7	1870	Ecuador
SAD_1969_To_WGS_1984_8	1871	Ecuador (Baltra, Galapagos)
SAD_1969_To_WGS_1984_9	1872	Guyana
SAD_1969_To_WGS_1984_10	1873	Paraguay
SAD_1969_To_WGS_1984_11	1874	Peru
SAD_1969_To_WGS_1984_12	1875	Trinidad and Tobago
SAD_1969_To_WGS_1984_13	1876	Venezuela
SAD_1969_To_WGS_1984_14	1877	Brazil
Saint_Pierre_et_Miquelon_1950_To_WGS_1984_1	1923	Saint Pierre and Miquelon
Sainte_Anne_To_WGS_1984_1	1904	Guadeloupe - Basse-Terre, Grande-Terre, Desiride, Marie-Galante, Les Saintes
Sainte_Anne_To_WGS_1984_2	1905	Guadeloupe - Basse-Terre, Grande-Terre, Desiride, Marie-Galante, Les Saintes
Samboja_To_WGS_1984	1282	Indonesia - E Kalimantan Mahakam delta area
Santo_DOS_1965_To_WGS_1984	15820	Espirito Santo Island
Sao_Braz_To_WGS_1984_1	108117	Azores - Sao Miguel and Santa Maria Islands
Sao_Braz_To_WGS_1984_2	108127	Azores Sao Miguel and Santa Maria Islands
Sapper_Hill_1943_To_WGS_1984	1225	Falkland Islands (East Falkland Island)
Schwarzeck_To_WGS_1984	1226	Namibia
Schwarzeck_To_WGS_1984_2	1271	Namibia
Scoresbysund_1952_To_Greenland_1996_1	15899	Greenland - onshore and offshore
Scoresbysund_1952_To_WGS_1984_1	1799	Greenland - Scoresbysund area
Segora_To_WGS_1984	1286	Indonesia - Kalimantan
Selvagem_Grande_1938_To_WGS_1984_1	1965	Portugal - Selvagens islands
Sierra_Leone_1968_To_WGS_1984	1614	Sierra Leone
SIRGAS_2000_To_WGS_1984_1	15894	Latin America

SIRGAS_To_WGS_1984_1	1581	South America
Solomon_1968_To_WGS_1984_1	15805	Solomon Islands
Solomon_1968_To_WGS_1984_2	15807	Solomon Islands
South_Asia_Singapore_To_WGS_1984	108269	Singapore
South_Yemen_To_WGS_1984_1	1682	South Yemen
South_Yemen_To_Yemen_NGN_1996	1539	South Yemen
St_George_To_NAD_1983	1457	St. George Island
St_George_To_WGS_1984_1	1698	Alaska - NADCON - St. George I.
St_Kitts_1955_To_WGS_1984	1445	St. Kitts and Nevis
St_Kitts_1955_To_WGS_1984_2	15750	Saint Kitts and Nevis - onshore and offshore
St_Lawrence_To_NAD_1983	1455	St. Lawrence Island
St_Lawrence_To_WGS_1984_1	1699	Alaska - NADCON - St. Lawrence I.
St_Lucia_1955_To_WGS_1984	1446	St. Lucia
St_Paul_To_NAD_1983	1456	St. Paul Island
St_Paul_To_WGS_1984_1	1700	Alaska - NADCON - St. Paul I.
St_Vincent_1945_To_WGS_1984_1	1959	St. Vincent and the Grenadines
ST71_Belep_To_WGS_1984_1	1931	New Caledonia - Belep
ST84_Ile_des_Pins_To_RGNC_1991-93_1	15893	New Caledonia - Ile des Pins
ST84_Ile_des_Pins_To_WGS_1984_1	1930	New Caledonia - Ile des Pins
ST84_Ile_des_Pins_To_WGS_1984_2	15848	New Caledonia - Ile des Pins
ST87_Ouvea_To_RGNC_1991-93_1	15885	New Caledonia - Loyalty Islands - Ouvea
ST87_Ouvea_To_RGNC_1991-93_2	15892	New Caledonia - Loyalty Islands - Ouvea
ST87_Ouvea_To_WGS_1984_2	15881	New Caledonia - Loyalty Islands - Ouvea
SWEREF99_To_ETRS_1989_1	1878	Sweden
SWEREF99_To_RT90	108212	Sweden
SWEREF99_To_WGS_1984_1	1879	Sweden
Tahaa_1954_To_RGPF_1	15758	French Polynesia - Society Islands - Bora Bora, Huahine, Raiatea and Tahaa
Tahaa_1954_To_WGS_1984_1	1913	Society Islands - Bora Bora, Huahin, Raiatea, Tahaa
Tahaa_1954_To_WGS_1984_2	15770	French Polynesia - Society Islands - Bora Bora, Huahine, Raiatea and Tahaa
Tahiti_1952_To_WGS_1984_1	1924	Society Islands - Moorea and Tahiti
Tahiti_1979_To_RGPF_1	15756	French Polynesia - Society Islands - Tahiti
Tahiti_1979_To_WGS_1984_1	15768	French Polynesia - Society Islands - Tahiti
Tananarive_1925_Paris_To_Tananarive_1925	1265	Madagascar
Tananarive_1925_Paris_To_WGS_1984	8176	Madagascar
Tananarive_1925_To_WGS_1984	1227	Madagascar
Tern_Island_1961_To_WGS_1984	15795	Tern Island
Tete_To_Moznet_1	1297	Mozambique
Tete_To_Moznet_2	1298	Mozambique - Maputo & S Gaza province, S of approx. 24S
Tete_To_Moznet_3	1299	Mozambique - Gaza, Inhambane, S Sofala and S Manhica, betwn 20S-24S
Tete_To_Moznet_4	1300	Mozambique -Sofala N of Beira corridor, Manhica, Tete & Zambezia, 16S-20S
Tete_To_Moznet_5	1301	Mozambique - Nampula, Niassa and Cabo Delgado, N of 16S

Tete_To_WGS_1984_1	1683	Mozambique
Tete_To_WGS_1984_2	1684	Mozambique - Maputo and southern part of Gaza (S of 24S)
Tete_To_WGS_1984_3	1685	Mozambique - Gaza, Inhambane, and southern parts of Sofala & Manhica (between 24S and 20S)
Tete_To_WGS_1984_4	1686	Mozambique - Sofala N of Beira corridor, Manhica, Tete & Zambezia (between 20S and 16S)
Tete_To_WGS_1984_5	1687	Mozambique - Nampula, Niassa, and Cabo Delgado (N of 16S)
Timbalai_1948_To_WGS_1984	1228	Brunei, Malaysia (Sabah, Sarawak)
Timbalai_1948_To_WGS_1984_2	1592	Brunei Darussalam offshore
Timbalai_1948_To_WGS_1984_3	1615	Brunei Darussalam onshore
Timbalai_1948_To_WGS_1984_4	1852	Malaysia - East Malaysia (Sabah, Sarawak) offshore
TM65_To_ETRS_1989_1	1640	Republic of Ireland and Northern Ireland
TM65_To_WGS_1984	1229	Ireland
TM65_To_WGS_1984_2	1641	Republic of Ireland and Northern Ireland
TM75_To_ETRS_1989_2	1953	Ireland, Northern Ireland
TM75_To_WGS_1984_2	1954	Ireland, Northern Ireland
TM75_To_WGS_1984_3	1956	Ireland, Northern Ireland
Tokyo_To_JGD_2000_1	108103	Japan
Tokyo_To_WGS_1984_1	1230	Japan, Korea, and Okinawa
Tokyo_To_WGS_1984_2	1231	Japan
Tokyo_To_WGS_1984_2001	108106	Japan
Tokyo_To_WGS_1984_3	1232	Korea
Tokyo_To_WGS_1984_4	1233	Okinawa
Tokyo_To_WGS_1984_5	1305	South Korea
Trinidad_1903_To_WGS_1984	1296	Trinidad and Tobago
Trinidad_1903_To_WGS_1984_2	10085	Trinidad and Tobago - Trinidad - onshore and offshore
Tristan_1968_To_WGS_1984	15816	Tristan da Cunha
Vanua_Levu_1915_To_WGS_1984_1	15878	Fiji - Vanua Levu and Taveuni.
Vientiane_1982_To_Lao_1997_1	1063	Lao People's Democratic Republic
Viti_Levu_1916_To_WGS_1984	15821	Fiji - Viti Levu
Voirol_1875_Paris_To_Voirol_1875	1266	Algeria
Voirol_1875_Paris_To_WGS_1984	8211	Algeria
Voirol_1875_To_WGS_1984	1294	Algeria - N of 35g (31° 30') N
Voirol_Unifie_1960_Paris_To_Voirol_Unifie_1960	8171	Algeria
Voirol_Unifie_1960_Paris_To_WGS_1984	8177	Algeria
Voirol_Unifie_1960_To_WGS_1984	8158	Algeria
Wake_Eniwetok_1960_To_WGS_1984	15822	Marshall Islands
Wake_Island_1952_To_WGS_1984	15823	Wake Island
WGS_1972_BE_To_WGS_1972_1	1239	World
WGS_1972_BE_To_WGS_1984_1	1240	World
WGS_1972_To_WGS_1984_1	1237	World

WGS_1972_To_WGS_1984_2	1238	World
WGS_1984_(ITRF00)_To_NAD_1983_HARN	108282	United States - CORS96
WGS_1984_Major_Auxiliary_Sphere_To_WGS_1984	108100	World
WGS_1984_To_NTF_NTV2	108473	France
WGS_1984_To_Observatorio_Meteor_1965_1	108211	Macau
WGS_1984_To_Observatorio_Meteorologico_1965_2	108235	Macau
WGS_1984_To_RT90	108213	Sweden
Yacare_To_WGS_1984	1234	Uruguay
Yemen_NGN_1996_To_WGS_1984	1540	Yemen
Yoff_To_WGS_1972_1	1828	Senegal
Zanderij_To_WGS_1984	1235	Suriname

 HowTo: Determine which NAD_1983_To_WGS_1984 transformation to use

Article ID:	24159
Software:	ArcGIS - ArcEditor 8.1, 8.1.2, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.3.1 ArcGIS - ArcInfo 8.0.1, 8.0.2, 8.1, 8.1.2, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.3.1 ArcGIS - ArcView 8.1, 8.1.2, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.3.1
Platforms:	N/A

Summary

When originally defined, North American Datum 1983 (NAD 1983) and World Geodetic System 1984 (WGS 1984) were equivalent. In order to minimize coordinate changes, NAD 1983 is tied to the North American and Pacific (for Hawai'i, etc.) plates. WGS 1984 is tied to the International Terrestrial Reference System (ITRF), which is independent of the tectonic plates. Over time, the two coordinate systems are increasingly different.

Instructions provided help in determining the correct datum transformation to use when transforming data between the NAD 1983 and the WGS 1984 datums.

Procedure

- **NAD_1983_To_WGS_1984_1**
Published accuracy from EPSG is 2 meters. This transformation applies to the entire North American continent. Accuracy of the transformation varies, with greater accuracy at southern latitudes, and less accuracy at more northern latitudes with maximum offset of 2 meters.

This transformation uses the Geocentric Translation method, with the transformation's parameters (dx, dy, and dz) all equal to zeroes. This transformation treats the NAD 1983 and WGS 1984 datums as though they are equivalent.

NAD_1983_To_WGS_1984_2
Calculated by the U. S. Defence Mapping Agency (DMA), now known as the National Geospatial Intelligence Agency (NGA) for the Aleutian islands. Accuracy is listed by EPSG at +/-8 m.

NAD_1983_To_WGS_1984_3
Calculated by the NGA for Hawai'i. Accuracy is listed by EPSG at +/-4 m.

NAD_1983_To_WGS_1984_4
Formerly applied within the 48 contiguous states, but is superseded by _5. This transformation method should no longer be used.

NAD_1983_To_WGS_1984_5
Transformation parameters calculated by the U. S. National Geodetic Survey (NGS) using CORS stations, and ties WGS 1984 to ITRF96. Accuracy according to EPSG is +/-1 meter.

NAD_1983_To_WGS_1984_6, _7, and _8
Canadian NTv2 transformations, for the Quebec, Saskatchewan and Alberta provinces, respectively.
 - Each of these datum transformations can be used for the specified area, and arguments can be made for the application of each transformation. One of the most important considerations is consistency, using the same transformation each time, to transform between these two Geographic Coordinate Systems (datums). When using the Project Tool, the transformation method is recorded in the metadata.
 - The European Petroleum Survey Group (EPSG) database can be downloaded at the similarly titled link in Related Information. This database is a free download, and is updated frequently. This database includes information on the source of datum transformation parameters, and in many cases includes the accuracy of the transformation from the transformation source.
 -  ArcGIS Desktop version 9.2 uses information from version 6.10.2 of the database. Version 9.3 uses information from version 6.13.
 - The difference between the GRS 1980 spheroid, the basis for the NAD 1983 datum, and the WGS 1984 spheroid is 0.0001 meters in the length of the semi-minor axis - the distance between the geodetic center of the earth and the North Pole. The semi-minor axis for GRS 1980 is 6356752.3141 meters. This axis for WGS 1984 is 6356752.3142 meters, while the semi-major axis both spheroids measures 6378137 meters.

Related Information

- [Projection Basics: What the GIS professional needs to know](#)
The following concepts are fundamental to understanding the use of map projections in ArcGIS. 1. Coordinate systems, also known as map projections, are arbitrary designations for spatial data. Their purpose is to provide a common basis for comm...
- [Select the correct geographic \(datum\) transformation when projecting between datums](#)
It is necessary to specify a geographic (datum) transformation when using the ArcToolBox Project Wizard (ArcGIS version 8.x) or Project Tool (ArcGIS version 9.x) to project shapefiles or geodatabase feature classes between different geographic coo...
- [European Petroleum Survey Group \(EPSG\)](#)

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