**Reference Ellipsoids**

**and**

**Geodetic Datum Transformation Parameters (Local to WGS-84)**

**From**

**NIMA 8350.2 4 July 1977**

**and**

**MADTRAN 1 October 1996**

**http://www.colorado.edu/geography/gcraft/notes/datum/edlist.html**

* **Reference Ellipsoids**

|  |  |  |
| --- | --- | --- |
| **Ellipsoid** | **Semi-major axis** | **1/flattening** |
| Airy 1830, | 6377563.396 | 299.3249646 |
| Modified Airy | 6377340.189 | 299.3249646 |
| Australian National | 6378160 | 298.25 |
| Bessel 1841 (Namibia) | 6377483.865 | 299.1528128 |
| Bessel 1841 | 6377397.155 | 299.1528128 |
| Clarke 1866, | 6378206.4 | 294.9786982 |
| Clarke 1880, | 6378249.145 | 293.465 |
| Everest (India 1830)" | 6377276.345 | 300.8017 |
| Everest (Sabah Sarawak) | 6377298.556 | 300.8017 |
| Everest (India 1956) | 6377301.243 | 300.8017 |
| Everest (Malaysia 1969) | 6377295.664 | 300.8017 |
| Everest (Malay. & Sing) | 6377304.063 | 300.8017 |
| Everest (Pakistan) | 6377309.613 | 300.8017 |
| Modified Fischer 1960 | 6378155 | 298.3 |
| Helmert 1906 | 6378200 | 298.3 |
| Hough 1960 | 6378270 | 297 |
| Indonesian 1974 | 6378160 | 298.247 |
| International 1924 | 6378388 | 297 |
| Krassovsky 1940 | 6378245 | 298.3 |
| GRS 80 | 6378137 | 298.257222101 |
| South American 1969 | 6378160 | 298.25 |
| WGS 72 | 6378135 | 298.26 |
| WGS 84 | 6378137 | 298.257223563 |

* **Geodetic Datum Transformation Parameters (Local to WGS-84)**

**d = delta in meters; e = error estimate in meters; #S = number of satellite measurement stations**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Datum** | **Ellipsoid** | **dX** | **dY** | **dZ** | **Region of use** | **eX** | **eY** | **eZ** | **#S** |
| Adindan | Clarke 1880 | -118 | -14 | 218 | Burkina Faso | 25 | 25 | 25 | 1 |
| Adindan | Clarke 1880 | -134 | -2 | 210 | Cameroon | 25 | 25 | 25 | 1 |
| Adindan | Clarke 1880 | -165 | -11 | 206 | Ethiopia | 3 | 3 | 3 | 8 |
| Adindan | Clarke 1880 | -123 | -20 | 220 | Mali | 25 | 25 | 25 | 1 |
| Adindan | Clarke 1880 | -166 | -15 | 204 | MEAN FOR Ethiopia; Sudan | 5 | 5 | 3 | 22 |
| Adindan | Clarke 1880 | -128 | -18 | 224 | Senegal | 25 | 25 | 25 | 2 |
| Adindan | Clarke 1880 | -161 | -14 | 205 | Sudan | 3 | 5 | 3 | 14 |
| Afgooye | Krassovsky 1940 | -43 | -163 | 45 | Somalia | 25 | 25 | 25 | 1 |
| Ain el Abd 1970 | International 1924 | -150 | -250 | -1 | Bahrain | 25 | 25 | 25 | 2 |
| Ain el Abd 1970 | International 1924 | -143 | -236 | 7 | Saudi Arabia | 10 | 10 | 10 | 9 |
| American Samoa 1962 | Clarke 1866 | -115 | 118 | 426 | American Samoa Islands | 25 | 25 | 25 | 2 |
| Anna 1 Astro 1965 | Australian National | -491 | -22 | 435 | Cocos Islands | 25 | 25 | 25 | 1 |
| Antigua Island Astro 1943 | Clarke 1880 | -270 | 13 | 62 | Antigua (Leeward Islands) | 25 | 25 | 25 | 1 |
| Arc 1950 | Clarke 1880 | -138 | -105 | -289 | Botswana | 3 | 5 | 3 | 9 |
| Arc 1950 | Clarke 1880 | -153 | -5 | -292 | Burundi | 20 | 20 | 20 | 3 |
| Arc 1950 | Clarke 1880 | -125 | -108 | -295 | Lesotho | 3 | 3 | 8 | 5 |
| Arc 1950 | Clarke 1880 | -161 | -73 | -317 | Malawi | 9 | 24 | 8 | 6 |
| Arc 1950 | Clarke 1880 | -143 | -90 | -294 | MEAN FOR Botswana; Lesotho; Malawi; Swaziland; Zaire; Zambia; Zimbabwe | 20 | 33 | 20 | 41 |
| Arc 1950 | Clarke 1880 | -134 | -105 | -295 | Swaziland | 15 | 15 | 15 | 4 |
| Arc 1950 | Clarke 1880 | -169 | -19 | -278 | Zaire | 25 | 25 | 25 | 2 |
| Arc 1950 | Clarke 1880 | -147 | -74 | -283 | Zambia | 21 | 21 | 27 | 5 |
| Arc 1950 | Clarke 1880 | -142 | -96 | -293 | Zimbabwe | 5 | 8 | 11 | 10 |
| Arc 1960 | Clarke 1880 | -160 | -6 | -302 | MEAN FOR Kenya; Tanzania | 20 | 20 | 20 | 25 |
| Arc 1960 | Clarke 1880 | -157 | -2 | -299 | Kenya | 4 | 3 | 3 | 24 |
| Arc 1960 | Clarke 1880 | -175 | -23 | -303 | Taanzania | 6 | 9 | 10 | 12 |
| Ascension Island 1958 | International 1924 | -205 | 107 | 53 | Ascension Island | 25 | 25 | 25 | 2 |
| Astro Beacon E 1945 | International 1924 | 145 | 75 | -272 | Iwo Jima | 25 | 25 | 25 | 1 |
| Astro DOS 71/4 | International 1924 | -320 | 550 | -494 | St Helena Island | 25 | 25 | 25 | 1 |
| Astro Tern Island (FRIG) 1961 | International 1924 | 114 | -116 | -333 | Tern Island | 25 | 25 | 25 | 1 |
| Astronomical Station 1952 | International 1924 | 124 | -234 | -25 | Marcus Island | 25 | 25 | 25 | 1 |
| Australian Geodetic 1966 | Australian National | -133 | -48 | 148 | Australia; Tasmania | 3 | 3 | 3 | 105 |
| Australian Geodetic 1984 | Australian National | -134 | -48 | 149 | Australia; Tasmania | 2 | 2 | 2 | 90 |
| Ayabelle Lighthouse | Clarke 1880 | -79 | -129 | 145 | Djibouti | 25 | 25 | 25 | 1 |
| Bellevue (IGN) | International 1924 | -127 | -769 | 472 | Efate & Erromango Islands | 20 | 20 | 20 | 3 |
| Bermuda 1957 | Clarke 1866 | -73 | 213 | 296 | Bermuda | 20 | 20 | 20 | 3 |
| Bissau | International 1924 | -173 | 253 | 27 | Guinea-Bissau | 25 | 25 | 25 | 2 |
| Bogota Observatory | International 1924 | 307 | 304 | -318 | Colombia | 6 | 5 | 6 | 7 |
| Bukit Rimpah | Bessel 1841 | -384 | 664 | -48 | Indonesia (Bangka & Belitung Ids) | -1 | -1 | -1 | 0 |
| Camp Area Astro | International 1924 | -104 | -129 | 239 | Antarctica (McMurdo Camp Area) | -1 | -1 | -1 | 0 |
| Campo Inchauspe | International 1924 | -148 | 136 | 90 | Argentina | 5 | 5 | 5 | 20 |
| Canton Astro 1966 | International 1924 | 298 | -304 | -375 | Phoenix Islands | 15 | 15 | 15 | 4 |
| Cape | Clarke 1880 | -136 | -108 | -292 | South Africa | 3 | 6 | 6 | 5 |
| Cape Canaveral | Clarke 1866 | -2 | 151 | 181 | Bahamas; Florida | 3 | 3 | 3 | 19 |
| Carthage | Clarke 1880 | -263 | 6 | 431 | Tunisia | 6 | 9 | 8 | 5 |
| Chatham Island Astro 1971 | International 1924 | 175 | -38 | 113 | New Zealand (Chatham Island) | 15 | 15 | 15 | 4 |
| Chua Astro | International 1924 | -134 | 229 | -29 | Paraguay | 6 | 9 | 5 | 6 |
| Corrego Alegre | International 1924 | -206 | 172 | -6 | Brazil | 5 | 3 | 5 | 17 |
| Dabola | Clarke 1880 | -83 | 37 | 124 | Guinea | 15 | 15 | 15 | 4 |
| Deception Island | Clarke 1880 | 260 | 12 | -147 | Deception Island; Antarctia | 20 | 20 | 20 | 3 |
| Djakarta (Batavia) | Bessel 1841 | -377 | 681 | -50 | Indonesia (Sumatra) | 3 | 3 | 3 | 5 |
| DOS 1968 | International 1924 | 230 | -199 | -752 | New Georgia Islands (Gizo Island) | 25 | 25 | 25 | 1 |
| Easter Island 1967 | International 1924 | 211 | 147 | 111 | Easter Island | 25 | 25 | 25 | 1 |
| Estonia; Coordinate System 1937 | Bessel 1841 | 374 | 150 | 588 | Estonia | 2 | 3 | 3 | 19 |
| European 1950 | International 1924 | -104 | -101 | -140 | Cyprus | 15 | 15 | 15 | 4 |
| European 1950 | International 1924 | -130 | -117 | -151 | Egypt | 6 | 8 | 8 | 14 |
| European 1950 | International 1924 | -86 | -96 | -120 | England; Channel Islands; Scotland; Shetland Islands | 3 | 3 | 3 | 40 |
| European 1950 | International 1924 | -86 | -96 | -120 | England; Ireland; Scotland; Shetland Islands | 3 | 3 | 3 | 47 |
| European 1950 | International 1924 | -87 | -95 | -120 | Finland; Norway | 3 | 5 | 3 | 20 |
| European 1950 | International 1924 | -84 | -95 | -130 | Greece | 25 | 25 | 25 | 2 |
| European 1950 | International 1924 | -117 | -132 | -164 | Iran | 9 | 12 | 11 | 27 |
| European 1950 | International 1924 | -97 | -103 | -120 | Italy (Sardinia) | 25 | 25 | 25 | 2 |
| European 1950 | International 1924 | -97 | -88 | -135 | Italy (Sicily) | 20 | 20 | 20 | 3 |
| European 1950 | International 1924 | -107 | -88 | -149 | Malta | 25 | 25 | 25 | 1 |
| European 1950 | International 1924 | -87 | -98 | -121 | MEAN FOR Austria; Belgium; Denmark; Finland; France; W Germany; Gibraltar; Greece; Italy; Luxembourg; Netherlands; Norway; Portugal; Spain; Sweden; Switzerland | 3 | 8 | 5 | 85 |
| European 1950 | International 1924 | -87 | -96 | -120 | MEAN FOR Austria; Denmark; France; W Germany; Netherlands; Switzerland | 3 | 3 | 3 | 52 |
| European 1950 | International 1924 | -103 | -106 | -141 | MEAN FOR Iraq; Israel; Jordan; Lebanon; Kuwait; Saudi Arabia; Syria | -1 | -1 | -1 | 0 |
| European 1950 | International 1924 | -84 | -107 | -120 | Portugal; Spain | 5 | 6 | 3 | 18 |
| European 1950 | International 1924 | -112 | -77 | -145 | Tunisia | 25 | 25 | 25 | 4 |
| European 1979 | International 1924 | -86 | -98 | -119 | MEAN FOR Austria; Finland; Netherlands; Norway; Spain; Sweden; Switzerland | 3 | 3 | 3 | 22 |
| Fort Thomas 1955 | Clarke 1880 | -7 | 215 | 225 | Nevis; St. Kitts (Leeward Islands) | 25 | 25 | 25 | 2 |
| Gan 1970 | International 1924 | -133 | -321 | 50 | Republic of Maldives | 25 | 25 | 25 | 1 |
| Geodetic Datum 1949 | International 1924 | 84 | -22 | 209 | New Zealand | 5 | 3 | 5 | 14 |
| Graciosa Base SW 1948 | International 1924 | -104 | 167 | -38 | Azores (Faial; Graciosa; Pico; Sao Jorge; Terceira) | 3 | 3 | 3 | 5 |
| Guam 1963 | Clarke 1866 | -100 | -248 | 259 | Guam | 3 | 3 | 3 | 5 |
| Gunung Segara | Bessel 1841 | -403 | 684 | 41 | Indonesia (Kalimantan) | -1 | -1 | -1 | 0 |
| GUX 1 Astro | International 1924 | 252 | -209 | -751 | Guadalcanal Island | 25 | 25 | 25 | 1 |
| Herat North | International 1924 | -333 | -222 | 114 | Afghanistan | -1 | -1 | -1 | 0 |
| Hermannskogel Datum | Bessel 1841 (Namibia) | 653 | -212 | 449 | Croatia -Serbia, Bosnia-Herzegovina | -1 | -1 | -1 | 0 |
| Hjorsey 1955 | International 1924 | -73 | 46 | -86 | Iceland | 3 | 3 | 6 | 6 |
| Hong Kong 1963 | International 1924 | -156 | -271 | -189 | Hong Kong | 25 | 25 | 25 | 2 |
| Hu-Tzu-Shan | International 1924 | -637 | -549 | -203 | Taiwan | 15 | 15 | 15 | 4 |
| Indian | Everest (India 1830) | 282 | 726 | 254 | Bangladesh | 10 | 8 | 12 | 6 |
| Indian | Everest (India 1956) | 295 | 736 | 257 | India; Nepal | 12 | 10 | 15 | 7 |
| Indian | Everest (Pakistan) | 283 | 682 | 231 | Pakistan | -1 | -1 | -1 | 0 |
| Indian 1954 | Everest (India 1830) | 217 | 823 | 299 | Thailand | 15 | 6 | 12 | 11 |
| Indian 1960 | Everest (India 1830) | 182 | 915 | 344 | Vietnam (Con Son Island) | 25 | 25 | 25 | 1 |
| Indian 1960 | Everest (India 1830) | 198 | 881 | 317 | Vietnam (Near 16øN) | 25 | 25 | 25 | 2 |
| Indian 1975 | Everest (India 1830) | 210 | 814 | 289 | Thailand | 3 | 2 | 3 | 62 |
| Indonesian 1974 | Indonesian 1974 | -24 | -15 | 5 | Indonesia | 25 | 25 | 25 | 1 |
| Ireland 1965 | Modified Airy | 506 | -122 | 611 | Ireland | 3 | 3 | 3 | 7 |
| ISTS 061 Astro 1968 | International 1924 | -794 | 119 | -298 | South Georgia Islands | 25 | 25 | 25 | 1 |
| ISTS 073 Astro 1969 | International 1924 | 208 | -435 | -229 | Diego Garcia | 25 | 25 | 25 | 2 |
| Johnston Island 1961 | International 1924 | 189 | -79 | -202 | Johnston Island | 25 | 25 | 25 | 1 |
| Kandawala | Everest (India 1830) | -97 | 787 | 86 | Sri Lanka | 20 | 20 | 20 | 3 |
| Kerguelen Island 1949 | International 1924 | 145 | -187 | 103 | Kerguelen Island | 25 | 25 | 25 | 1 |
| Kertau 1948 | Everest (Malay. & Sing) | -11 | 851 | 5 | West Malaysia & Singapore | 10 | 8 | 6 | 6 |
| Kusaie Astro 1951 | International 1924 | 647 | 1777 | -1124 | Caroline Islands | 25 | 25 | 25 | 1 |
| Korean Geodetic System | GRS 80 | 0 | 0 | 0 | South Korea | 2 | 2 | 2 | 12 |
| L. C. 5 Astro 1961 | Clarke 1866 | 42 | 124 | 147 | Cayman Brac Island | 25 | 25 | 25 | 1 |
| Leigon | Clarke 1880 | -130 | 29 | 364 | Ghana | 2 | 3 | 2 | 8 |
| Liberia 1964 | Clarke 1880 | -90 | 40 | 88 | Liberia | 15 | 15 | 15 | 4 |
| Luzon | Clarke 1866 | -133 | -77 | -51 | Philippines (Excluding Mindanao) | 8 | 11 | 9 | 6 |
| Luzon | Clarke 1866 | -133 | -79 | -72 | Philippines (Mindanao) | 25 | 25 | 25 | 1 |
| M'Poraloko | Clarke 1880 | -74 | -130 | 42 | Gabon | 25 | 25 | 25 | 1 |
| Mahe 1971 | Clarke 1880 | 41 | -220 | -134 | Mahe Island | 25 | 25 | 25 | 1 |
| Massawa | Bessel 1841 | 639 | 405 | 60 | Ethiopia (Eritrea) | 25 | 25 | 25 | 1 |
| Merchich | Clarke 1880 | 31 | 146 | 47 | Morocco | 5 | 3 | 3 | 9 |
| Midway Astro 1961 | International 1924 | 912 | -58 | 1227 | Midway Islands | 25 | 25 | 25 | 1 |
| Minna | Clarke 1880 | -81 | -84 | 115 | Cameroon | 25 | 25 | 25 | 2 |
| Minna | Clarke 1880 | -92 | -93 | 122 | Nigeria | 3 | 6 | 5 | 6 |
| Montserrat Island Astro 1958 | Clarke 1880 | 174 | 359 | 365 | Montserrat (Leeward Islands) | 25 | 25 | 25 | 1 |
| Nahrwan | Clarke 1880 | -247 | -148 | 369 | Oman (Masirah Island) | 25 | 25 | 25 | 2 |
| Nahrwan | Clarke 1880 | -243 | -192 | 477 | Saudi Arabia | 20 | 20 | 20 | 3 |
| Nahrwan | Clarke 1880 | -249 | -156 | 381 | United Arab Emirates | 25 | 25 | 25 | 2 |
| Naparima BWI | International 1924 | -10 | 375 | 165 | Trinidad & Tobago | 15 | 15 | 15 | 4 |
| North American 1927 | Clarke 1866 | -5 | 135 | 172 | Alaska (Excluding Aleutian Ids) | 5 | 9 | 5 | 47 |
| North American 1927 | Clarke 1866 | -2 | 152 | 149 | Alaska (Aleutian Ids East of 180øW) | 6 | 8 | 10 | 6 |
| North American 1927 | Clarke 1866 | 2 | 204 | 105 | Alaska (Aleutian Ids West of 180øW) | 10 | 10 | 10 | 5 |
| North American 1927 | Clarke 1866 | -4 | 154 | 178 | Bahamas (Except San Salvador Id) | 5 | 3 | 5 | 11 |
| North American 1927 | Clarke 1866 | 1 | 140 | 165 | Bahamas (San Salvador Island) | 25 | 25 | 25 | 1 |
| North American 1927 | Clarke 1866 | -7 | 162 | 188 | Canada (Alberta; British Columbia) | 8 | 8 | 6 | 25 |
| North American 1927 | Clarke 1866 | -9 | 157 | 184 | Canada (Manitoba; Ontario) | 9 | 5 | 5 | 25 |
| North American 1927 | Clarke 1866 | -22 | 160 | 190 | Canada (New Brunswick; Newfoundland; Nova Scotia; Quebec) | 6 | 6 | 3 | 37 |
| North American 1927 | Clarke 1866 | 4 | 159 | 188 | Canada (Northwest Territories; Saskatchewan) | 5 | 5 | 3 | 17 |
| North American 1927 | Clarke 1866 | -7 | 139 | 181 | Canada (Yukon) | 5 | 8 | 3 | 8 |
| North American 1927 | Clarke 1866 | 0 | 125 | 201 | Canal Zone | 20 | 20 | 20 | 3 |
| North American 1927 | Clarke 1866 | -9 | 152 | 178 | Cuba | 25 | 25 | 25 | 1 |
| North American 1927 | Clarke 1866 | 11 | 114 | 195 | Greenland (Hayes Peninsula) | 25 | 25 | 25 | 2 |
| North American 1927 | Clarke 1866 | -3 | 142 | 183 | MEAN FOR Antigua; Barbados; Barbuda; Caicos Islands; Cuba; Dominican Republic; Grand Cayman; Jamaica; Turks Islands | 3 | 9 | 12 | 15 |
| North American 1927 | Clarke 1866 | 0 | 125 | 194 | MEAN FOR Belize; Costa Rica; El Salvador; Guatemala; Honduras; Nicaragua | 8 | 3 | 5 | 19 |
| North American 1927 | Clarke 1866 | -10 | 158 | 187 | MEAN FOR Canada | 15 | 11 | 6 | 112 |
| North American 1927 | Clarke 1866 | -8 | 160 | 176 | MEAN FOR CONUS | 5 | 5 | 6 | 405 |
| North American 1927 | Clarke 1866 | -9 | 161 | 179 | MEAN FOR CONUS (East of Mississippi; River Including Louisiana; Missouri; Minnesota) | 5 | 5 | 8 | 129 |
| North American 1927 | Clarke 1866 | -8 | 159 | 175 | MEAN FOR CONUS (West of Mississippi; River Excluding Louisiana; Minnesota; Missouri) | 5 | 3 | 3 | 276 |
| North American 1927 | Clarke 1866 | -12 | 130 | 190 | Mexico | 8 | 6 | 6 | 22 |
| North American 1983 | GRS 80 | 0 | 0 | 0 | Alaska (Excluding Aleutian Ids) | 2 | 2 | 2 | 42 |
| North American 1983 | GRS 80 | -2 | 0 | 4 | Aleutian Ids | 5 | 2 | 5 | 4 |
| North American 1983 | GRS 80 | 0 | 0 | 0 | Canada | 2 | 2 | 2 | 96 |
| North American 1983 | GRS 80 | 0 | 0 | 0 | CONUS | 2 | 2 | 2 | 216 |
| North American 1983 | GRS 80 | 1 | 1 | -1 | Hawaii | 2 | 2 | 2 | 6 |
| North American 1983 | GRS 80 | 0 | 0 | 0 | Mexico; Central America | 2 | 2 | 2 | 25 |
| North Sahara 1959 | Clarke 1880 | -186 | -93 | 310 | Algeria | 25 | 25 | 25 | 3 |
| Observatorio Meteorologico 1939 | International 1924 | -425 | -169 | 81 | Azores (Corvo & Flores Islands) | 20 | 20 | 20 | 3 |
| Old Egyptian 1907 | Helmert 1906 | -130 | 110 | -13 | Egypt | 3 | 6 | 8 | 14 |
| Old Hawaiian | Clarke 1866 | 89 | -279 | -183 | Hawaii | 25 | 25 | 25 | 2 |
| Old Hawaiian | Clarke 1866 | 45 | -290 | -172 | Kauai | 20 | 20 | 20 | 3 |
| Old Hawaiian | Clarke 1866 | 65 | -290 | -190 | Maui | 25 | 25 | 25 | 2 |
| Old Hawaiian | Clarke 1866 | 61 | -285 | -181 | MEAN FOR Hawaii; Kauai; Maui; Oahu | 25 | 20 | 20 | 15 |
| Old Hawaiian | Clarke 1866 | 58 | -283 | -182 | Oahu | 10 | 6 | 6 | 8 |
| Oman | Clarke 1880 | -346 | -1 | 224 | Oman | 3 | 3 | 9 | 7 |
| Ordnance Survey Great Britain 1936 | Airy 1830 | 371 | -112 | 434 | England | 5 | 5 | 6 | 21 |
| Ordnance Survey Great Britain 1936 | Airy 1830 | 371 | -111 | 434 | England; Isle of Man; Wales | 10 | 10 | 15 | 25 |
| Ordnance Survey Great Britain 1936 | Airy 1830 | 375 | -111 | 431 | MEAN FOR England; Isle of Man; Scotland; Shetland Islands; Wales | 10 | 10 | 15 | 38 |
| Ordnance Survey Great Britain 1936 | Airy 1830 | 384 | -111 | 425 | Scotland; Shetland Islands | 10 | 10 | 10 | 13 |
| Ordnance Survey Great Britain 1936 | Airy 1830 | 370 | -108 | 434 | Wales | 20 | 20 | 20 | 3 |
| Pico de las Nieves | International 1924 | -307 | -92 | 127 | Canary Islands | 25 | 25 | 25 | 1 |
| Pitcairn Astro 1967 | International 1924 | 185 | 165 | 42 | Pitcairn Island | 25 | 25 | 25 | 1 |
| Point 58 | Clarke 1880 | -106 | -129 | 165 | MEAN FOR Burkina Faso & Niger | 25 | 25 | 25 | 1 |
| Pointe Noire 1948 | Clarke 1880 | -148 | 51 | -291 | Congo | 25 | 25 | 25 | 1 |
| Porto Santo 1936 | International 1924 | -499 | -249 | 314 | Porto Santo; Madeira Islands | 25 | 25 | 25 | 2 |
| Provisional South American 1956 | International 1924 | -270 | 188 | -388 | Bolivia | 5 | 11 | 14 | 5 |
| Provisional South American 1956 | International 1924 | -270 | 183 | -390 | Chile (Northern; Near 19øS) | 25 | 25 | 25 | 1 |
| Provisional South American 1956 | International 1924 | -305 | 243 | -442 | Chile (Southern; Near 43øS) | 20 | 20 | 20 | 3 |
| Provisional South American 1956 | International 1924 | -282 | 169 | -371 | Colombia | 15 | 15 | 15 | 4 |
| Provisional South American 1956 | International 1924 | -278 | 171 | -367 | Ecuador | 3 | 5 | 3 | 11 |
| Provisional South American 1956 | International 1924 | -298 | 159 | -369 | Guyana | 6 | 14 | 5 | 9 |
| Provisional South American 1956 | International 1924 | -288 | 175 | -376 | MEAN FOR Bolivia; Chile; Colombia; Ecuador; Guyana; Peru; Venezuela | 17 | 27 | 27 | 63 |
| Provisional South American 1956 | International 1924 | -279 | 175 | -379 | Peru | 6 | 8 | 12 | 6 |
| Provisional South American 1956 | International 1924 | -295 | 173 | -371 | Venezuela | 9 | 14 | 15 | 24 |
| Provisional South Chilean 1963 | International 1924 | 16 | 196 | 93 | Chile (Near 53øS) (Hito XVIII) | 25 | 25 | 25 | 2 |
| Puerto Rico | Clarke 1866 | 11 | 72 | -101 | Puerto Rico; Virgin Islands | 3 | 3 | 3 | 11 |
| Pulkovo 1942 | Krassovsky 1940 | 28 | -130 | -95 | Russia | -1 | -1 | -1 | 0 |
| Qatar National | International 1924 | -128 | -283 | 22 | Qatar | 20 | 20 | 20 | 3 |
| Qornoq | International 1924 | 164 | 138 | -189 | Greenland (South) | 25 | 25 | 32 | 2 |
| Reunion | International 1924 | 94 | -948 | -1262 | Mascarene Islands | 25 | 25 | 25 | 1 |
| Rome 1940 | International 1924 | -225 | -65 | 9 | Italy (Sardinia) | 25 | 25 | 25 | 1 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 28 | -121 | -77 | Hungary | 2 | 2 | 2 | 5 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 23 | -124 | -82 | Poland | 4 | 2 | 4 | 11 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 26 | -121 | -78 | Czechoslavakia | 3 | 3 | 2 | 6 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 24 | -124 | -82 | Latvia | 2 | 2 | 2 | 5 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 15 | -130 | -84 | Kazakhstan | 25 | 25 | 25 | 2 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 24 | -130 | -92 | Albania | 3 | 3 | 3 | 7 |
| S-42 (Pulkovo 1942) | Krassovsky 1940 | 28 | -121 | -77 | Romania | 3 | 5 | 3 | 4 |
| S-JTSK | Bessel 1841 | 589 | 76 | 480 | Czechoslavakia (Prior 1 JAN 1993) | 4 | 2 | 3 | 6 |
| Santo (DOS) 1965 | International 1924 | 170 | 42 | 84 | Espirito Santo Island | 25 | 25 | 25 | 1 |
| Sao Braz | International 1924 | -203 | 141 | 53 | Azores (Sao Miguel; Santa Maria Ids) | 25 | 25 | 25 | 2 |
| Sapper Hill 1943 | International 1924 | -355 | 21 | 72 | East Falkland Island | 1 | 1 | 1 | 5 |
| Schwarzeck | Bessel 1841 (Namibia) | 616 | 97 | -251 | Namibia | 20 | 20 | 20 | 3 |
| Selvagem Grande 1938 | International 1924 | -289 | -124 | 60 | Salvage Islands | 25 | 25 | 25 | 1 |
| Sierra Leone 1960 | Clarke 1880 | -88 | 4 | 101 | Sierra Leone | 15 | 15 | 15 | 8 |
| South American 1969 | South American 1969 | -62 | -1 | -37 | Argentina | 5 | 5 | 5 | 10 |
| South American 1969 | South American 1969 | -61 | 2 | -48 | Bolivia | 15 | 15 | 15 | 4 |
| South American 1969 | South American 1969 | -60 | -2 | -41 | Brazil | 3 | 5 | 5 | 22 |
| South American 1969 | South American 1969 | -75 | -1 | -44 | Chile | 15 | 8 | 11 | 9 |
| South American 1969 | South American 1969 | -44 | 6 | -36 | Colombia | 6 | 6 | 5 | 7 |
| South American 1969 | South American 1969 | -48 | 3 | -44 | Ecuador | 3 | 3 | 3 | 11 |
| South American 1969 | South American 1969 | -47 | 26 | -42 | Ecuador (Baltra; Galapagos) | 25 | 25 | 25 | 1 |
| South American 1969 | South American 1969 | -53 | 3 | -47 | Guyana | 9 | 5 | 5 | 5 |
| South American 1969 | South American 1969 | -57 | 1 | -41 | MEAN FOR Argentina; Bolivia; Brazil; Chile; Colombia; Ecuador; Guyana; Paraguay; Peru; Trinidad & Tobago; Venezuela | 15 | 6 | 9 | 84 |
| South American 1969 | South American 1969 | -61 | 2 | -33 | Paraguay | 15 | 15 | 15 | 4 |
| South American 1969 | South American 1969 | -58 | 0 | -44 | Peru | 5 | 5 | 5 | 6 |
| South American 1969 | South American 1969 | -45 | 12 | -33 | Trinidad & Tobago | 25 | 25 | 25 | 1 |
| South American 1969 | South American 1969 | -45 | 8 | -33 | Venezuela | 3 | 6 | 3 | 5 |
| South Asia | Modified Fischer 1960 | 7 | -10 | -26 | Singapore | 25 | 25 | 25 | 1 |
| Tananarive Observatory 1925 | International 1924 | -189 | -242 | -91 | Madagascar | -1 | -1 | -1 | 0 |
| Timbalai 1948 | Everest (Sabah Sarawak) | -679 | 669 | -48 | Brunei; E. Malaysia (Sabah Sarawak) | 10 | 10 | 12 | 8 |
| Tokyo | Bessel 1841 | -148 | 507 | 685 | Japan | 8 | 5 | 8 | 16 |
| Tokyo | Bessel 1841 | -148 | 507 | 685 | MEAN FOR Japan; South Korea; Okinawa | 20 | 5 | 20 | 31 |
| Tokyo | Bessel 1841 | -158 | 507 | 676 | Okinawa | 20 | 5 | 20 | 3 |
| Tokyo | Bessel 1841 | -147 | 506 | 687 | South Korea | 2 | 2 | 2 | 29 |
| Tristan Astro 1968 | International 1924 | -632 | 438 | -609 | Tristan da Cunha | 25 | 25 | 25 | 1 |
| Viti Levu 1916 | Clarke 1880 | 51 | 391 | -36 | Fiji (Viti Levu Island) | 25 | 25 | 25 | 1 |
| Voirol 1960 | Clarke 1880 | -123 | -206 | 219 | Algeria | 25 | 25 | 25 | 2 |
| Wake Island Astro 1952 | International 1924 | 276 | -57 | 149 | Wake Atoll | 25 | 25 | 25 | 2 |
| Wake-Eniwetok 1960 | Hough 1960 | 102 | 52 | -38 | Marshall Islands | 3 | 3 | 3 | 10 |
| WGS 1972 | WGS 72 | 0 | 0 | 0 | Global Definition | -1 | -1 | -1 | 0 |
| WGS 1984 | WGS 84 | 0 | 0 | 0 | Global Definition | -1 | -1 | -1 | 0 |
| Yacare | International 1924 | -155 | 171 | 37 | Uruguay | -1 | -1 | -1 | 0 |
| Zanderij | International 1924 | -265 | 120 | -358 | Suriname | 5 | 5 | 8 | 5 |