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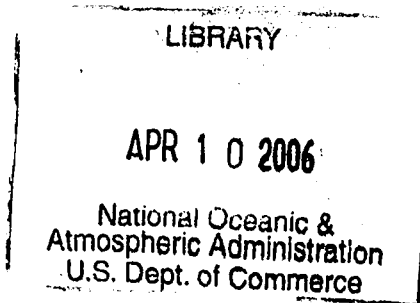
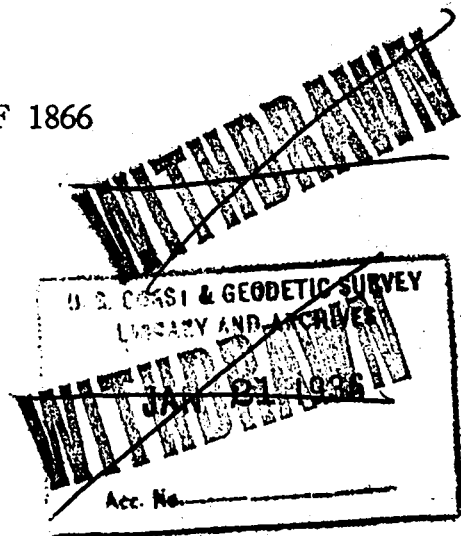
TABLES
FOR
A POLYCONIC PROJECTION OF MAPS
AND
LENGTHS OF TERRESTRIAL ARCS OF
MERIDIAN AND PARALLELS

BASED UPON
CLARKE'S REFERENCE SPHEROID OF 1866

Sixth Edition



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TABLES FOR THE PROJECTION OF MAPS BASED UPON A POLYCONIC DEVELOPMENT OF CLARKE'S SPHEROID OF 1866, AND COMPUTED FROM THE EQUATOR TO THE POLE

INTRODUCTION

These tables were published as Appendix 6 to the Coast and Geodetic Survey Report for 1884, and as Special Publication No. 5 in 1900. The constant demand for the tables has necessitated the present edition, in which the tables remain the same as those in the other editions, while this introductory is only slightly different from that of the second edition.

The tables here given for the construction of maps on the polyconic projection depend upon the dimensions of the spheroid representative of the earth's figure and size as determined by Col. A. R. Clarke, R. E., in 1866 and as expressed by him in meters. Prior to February 1880, the work of the Survey was developed on Bessel's representative spheroid of 1841, and for which projection tables had been published in the annual reports for 1853, 1856, 1859, and 1865. The first publication, by E. B. Hunt, U. S. A., assistant in the Survey, is accompanied by an exposition of the method; the second publication, by J. E. Hilgard, assistant, specially provides for the projecting of maps of large extent, and received some further extension in 1859 and for a special case in 1865. These earlier publications were superseded in consequence of the change of the spheroid of development. The report of the Survey for 1880 contains a paper by C. A. Schott, assistant, comparing the polyconic with other projections as to their relative practical values, and a special publication of the Survey in 1882, by T. Craig, Ph. D., develops the mathematical principles upon which the various forms of projections depend and exhibits their special properties. The projection tables of 1884 were edited by C. O. Boutelle, assistant in charge of the Office, and are in a most complete form for use for maps of any scale.¹

The two spheroids of reference referred to, with their dimensions expressed in meters, compare as follows:

	According to Bessel (1841)	According to Clarke (1866)
Equatorial radius, a	6 377 397.2	6 378 206.4
Polar semi-axis, b	6 356 079.0	6 356 583.8
b/a	298.15/299.15	293.98/294.98

Originally the dimensions of the Besselian spheroid were expressed in toises, those of Clarke's spheroid in English standard feet. Their metric equivalents as adopted at the time and here given could not now be considered as representing the best comparisons.² According to Clarke (1866):

The toise equals 76.734 402 inches=1.949 036 32 meters.

The meter equals 39.370 432 inches=3.280 869 33 feet.

whereas we find now the more correct relation to the international meter somewhere between 39.369 87 and 39.370 03 inches;³ the value 39.369 90 inches is the result by the Weights and Measures Bureau, presented in Appendix No. 16, Coast and Geodetic Survey Report for 1890, by Assistant O. H. Tittmann, pages 715-720. The legal value in the United States is 39.3700 inches, which is undoubtedly close to the truth. This last relation corresponds to 1 meter=3.280 8333 feet and 1 foot=0.304 8006 meters.

¹ Other tables for the polyconic projection are contained in the Smithsonian Institution Geographic Tables prepared by R. S. Woodward, Smithsonian Miscellaneous Collections 854, the third edition of which was printed in 1906 and reprinted in 1913, and in U. S. Geological Survey Bulletin No. 806, "Formulas and Tables for the Construction of Polyconic Projections", by C. H. Birdseye, 1920.

² Comparisons of standards of lengths, etc., made at the Ordnance Office at Southampton by Capt. A. R. Clarke, London, 1866, p. 287.

³ Die Europäische Längengradmessung in 52° Breite. Berlin, 1893, pp. 225-230.

The statute mile of 5 280 feet equals 1 609.347 meters. The nautical mile, not being a measure of precision unless specially defined, is variously given. Originally and practically for uses at sea it is the length of 1 minute of arc on the earth's surface for the given latitude and in the given azimuth as computed on a representative spheroid.⁴ In the tables issued by the office of Standard Weights and Measures, September 1898, the value given is 1 853.25 meters and is defined as a minute of arc of a great circle of a sphere whose surface equals that of the Clarke representative spheroid of 1866. Using Clarke's ratio of foot to meter this length is equal to 6 080.27 feet and is the same as given by Bowditch, United States Naval edition of 1888. With the latest relation of the meter and the foot we get 6 080.20 feet. Accordingly we have 1 statute mile equal to 0.868 392 nautical mile and 1 nautical mile equals 1.151 553 statute miles.

For Clarke's spheroid (1866) and for the middle latitude ϕ we have the length in meters, M° , of a degree of the meridian and the length, P° , of a degree of the parallel by the expressions:

$$M^\circ = 111\,132.09 - 566.05 \cos 2\phi + 1.20 \cos 4\phi - 0.00 \cos 6\phi + \dots$$

$$P^\circ = 111\,415.13 \cos \phi - 94.55 \cos 3\phi + 0.12 \cos 5\phi - \dots$$

The general aspect of a polyconic projection is well shown by the maps of North and Central America, Coast Survey Report for 1865, page 177, and, when extended over the surface of the sphere, by illustration no. 38 in the report of 1859. In this projection every parallel of latitude appears on the map as the developed circumference of the base of a right cone tangent to the spheroid on that parallel; the central meridian appears as a straight line, while all other meridians appear concave toward it; the parallels appear as arcs of circles of different radii, but with their centers on the central line (produced), the equator alone being represented by a straight line, and all parallels have their convexity turned toward it. It will be noticed that near the middle portion of a map or for ordinary limited charts of *large scale* the intersections of the projected meridians and parallels do not differ much from a right angle; developed arcs on the parallels appear in their true length according to scale of map, as also do the differences of latitude on the central meridian; hence for equal differences of longitude the corresponding parts on any parallel are equal, whereas the meridional differences widen out as we recede from the central meridian. For the construction of the net the table provides the values or rectangular coordinates of the intersections of parallels and meridians, which are computed by means of the following formulae: We have radius of curvature of normal section perpendicular to the meridian (and terminating at the minor axis)

$$\rho_n = a \left(1 - e^2 \sin^2 \phi \right)^{-\frac{1}{2}} \text{ and } e^2 = \frac{a^2 - b^2}{a^2} = 0.006\,768\,66$$

Where a = equatorial radius (6 378 206 meters), e = eccentricity, and ϕ = latitude. The slant height l of the tangent cone is $l = \rho_n \cot \phi$ and the angle θ at the apex of any developed arc n corresponding to the difference of longitude $\Delta\lambda$ is given by

$$\theta = n \sin \phi$$

The coordinates x and y of intersection are given by

$$x = l \sin \theta, \text{ which is nearly equivalent to } \rho_n n \cos \phi$$

$$y = 2l \sin^2 \frac{1}{2} \theta, \text{ which is nearly equivalent to } \frac{1}{4} \rho_n n^2 \sin^2 \phi$$

From what has been said the construction of a polyconic net is very simple, viz: Lay off on the given scale of the map and in its middle part a straight line to represent the central meridian; on it scale off the meridional distances between the several parallels of latitude, and through these points draw perpendiculars to the meridian to serve for the axes of the coordinates x , those of the coordinates y being at right angles thereto. Take the values of x and y from the table. The several successive points of intersection, thus marked, are then united by curved lines. The vertical ones represent the meridians and the others the parallels.

⁴ See Appendix No. 12, Coast and Geodetic Survey Report for 1881, which contains a variety of values for length of a nautical mile according to definitions.

Conversion tables

Meters into feet

1 meter=	3.280 833 3 feet
2	6.561 666 7
3	9.842 500 0
4	13.123 333 3
5	16.404 166 7
6	19.685 000 0
7	22.965 833 3
8	26.246 666 7
9	29.527 500 0

Meters into yards

1 meter=	1.093 611 1 yards
2	2.187 222 2
3	3.280 833 3
4	4.374 444 4
5	5.468 055 6
6	6.561 666 7
7	7.655 277 8
8	8.748 888 9
9	9.842 500 0

Meters into statute miles

1 meter=	0.000 621 370 st. miles
2	1 242 740
3	1 864 110
4	2 485 480
5	3 106 850
6	3 728 220
7	4 349 590
8	4 970 960
9	5 592 330

Meters into nautical miles

1 meter=	0.000 539 593 n. miles
2	1 079 185
3	1 618 778
4	2 158 370
5	2 697 963
6	3 237 556
7	3 777 148
8	4 316 741
9	4 856 333

Nautical miles into statute miles

1 n. mile=	1.151 553 st. miles
2	2.303 106
3	3.454 659
4	4.606 212
5	5.757 765
6	6.909 318
7	8.060 871
8	9.212 424
9	10.363 977

Feet into meters

1 foot=	0.304 800 6 meters
2	0.609 601 2
3	0.914 401 8
4	1.219 202 4
5	1.524 003 0
6	1.828 803 7
7	2.133 604 3
8	2.438 404 9
9	2.743 205 5

Yards into meters

1 yard=	0.914 401 8 meters
2	1.828 803 7
3	2.743 205 5
4	3.657 607 3
5	4.572 009 1
6	5.486 411 0
7	6.400 812 8
8	7.315 214 6
9	8.229 616 5

Statute miles into meters

1 st. mile=	1 609.35 meters
2	3 218.69
3	4 828.04
4	6 437.39
5	8 046.74
6	9 656.08
7	11 265.43
8	12 874.78
9	14 484.13

Nautical miles into meters

1 n. mile=	1 853.25 meters
2	3 706.50
3	5 559.75
4	7 413.00
5	9 266.25
6	11 119.50
7	12 972.75
8	14 826.00
9	16 679.25

Statute miles into nautical miles

1 st. mile=	0.868 393 n. miles
2	1.736 785
3	2.605 177
4	3.473 570
5	4.341 962
6	5.210 355
7	6.078 747
8	6.947 140
9	7.815 532

UNITED STATES COAST AND GEODETIC SURVEY

LENGTHS OF DEGREES OF THE PARALLEL

Lat.	Meters	Yards	Statute miles	Nautical miles	Lat.	Meters	Yards	Statute miles	Nautical miles	Lat.	Meters	Yards	Statute miles	Nautical miles
0 00	111 321	121 742	69.172	60.068	30 00	96 488	105 520	59.956	52.064	60 00	55 802	61 026	34.674	30.110
30	1 316	1 736	9.169	0.065	30	6 001	4 988	9.653	1.801	30	4 958	60 103	4.150	29.654
1 00	1 304	1 723	9.162	0.059	31 00	5 506	4 446	9.345	1.534	61 00	4 110	59 175	3.623	9.197
30	1 283	1 700	9.149	0.047	30	5 004	3 897	9.033	1.264	30	3 257	8 242	3.093	9.737
2 00	1 253	1 668	9.130	0.031	32 00	4 495	3 341	8.716	0.989	62 00	2 400	7 305	2.560	8.275
30	111 215	121 626	69.106	60.011	30	93 979	102 776	58.396	50.710	30	51 540	56 365	32.025	27.811
3 00	1 169	1 576	9.078	59.986	33 00	3 455	2 203	8.071	0.428	63 00	50 675	5 419	1.488	7.344
30	1 114	1 516	9.044	9.956	30	2 925	1 624	7.741	50.142	30	49 806	4 468	0.948	6.875
4 00	1 051	1 447	9.005	9.922	34 00	2 387	1 035	7.407	49.851	64 00	8 934	3 515	30.406	6.404
30	0 980	1 369	8.960	9.884	30	1 842	100 439	7.068	9.557	30	8 057	2 556	29.862	5.931
5 00	110 900	121 281	68.911	59.840	35 00	91 290	99 836	56.725	49.259	65 00	47 177	51 593	29.315	25.456
30	0 812	1 185	8.856	9.793	30	0 731	9 224	6.378	8.958	30	6 294	50 628	8.766	4.979
6 00	0 715	1 079	8.795	9.741	36 00	90 166	8 607	6.027	8.653	66 00	5 407	49 658	8.215	4.501
30	0 610	0 964	8.730	9.684	30	89 593	7 980	5.671	8.344	30	4 516	8 683	7.661	4.021
7 00	0 497	0 841	8.660	9.622	37 00	9 014	7 347	5.311	8.031	67 00	3 622	7 706	7.106	3.538
30	110 375	120 707	68.585	59.557	30	88 428	96 706	54.947	47.715	30	42 724	46 723	26.548	23.053
8 00	0 245	0 565	8.504	9.487	38 00	7 835	6 057	4.579	7.395	68 00	1 823	5 738	5.988	2.567
30	110 106	0 413	8.418	9.412	30	7 235	5 401	4.206	7.071	30	0 919	4 750	5.426	2.079
9 00	109 959	0 252	8.326	9.333	39 00	6 629	4 738	3.829	6.744	69 00	40 012	3 758	4.862	1.590
30	9 804	120 083	8.230	9.249	30	6 016	4 068	3.448	6.413	30	39 102	2 762	4.297	1.099
10 00	109 641	119 905	68.129	59.161	40 00	85 396	93 390	53.063	46.079	70 00	38 188	41 763	23.729	20.606
30	9 469	9 717	8.022	9.068	30	4 770	2 705	2.674	5.741	30	7 272	20 761	3.160	20.112
11 00	9 289	9 520	7.910	8.971	41 00	4 137	2 013	2.281	5.399	71 00	6 353	39 756	2.589	19.616
30	9 101	9 314	7.793	8.870	30	3 498	1 314	1.884	5.054	30	5 431	8 748	2.016	9.118
12 00	8 904	9 099	7.670	8.764	42 00	2 853	90 609	1.483	4.706	72 00	4 506	7 736	1.441	8.619
30	108 699	118 874	67.543	58.653	30	82 201	89 896	51.078	44.355	30	33 578	36 721	20.865	18.119
13 00	8 486	8 641	7.410	8.538	43 00	1 543	9 176	0.669	4.000	73 00	2 648	5 704	20.287	7.617
30	8 265	8 400	7.273	8.419	30	0 879	8 450	50.257	3.642	30	1 716	4 685	19.708	7.114
14 00	8 036	8 149	7.131	8.295	44 00	80 208	7 716	49.840	3.230	74 00	30 781	3 662	9.127	6.609
30	7 798	7 889	6.983	8.167	30	79 532	6 977	9.419	2.915	30	29 843	2 637	8.544	6.103
15 00	107 553	117 621	66.830	58.034	45 00	78 849	86 230	48.995	42.546	75 00	28 903	31 609	17.960	15.596
30	7 299	7 343	6.672	7.897	30	8 160	5 477	8.567	2.175	30	7 961	30 578	7.374	5.088
16 00	7 036	7 056	6.510	7.756	46 00	7 466	4 718	8.136	1.801	76 00	7 017	29 546	6.788	4.578
30	6 766	6 760	6.342	7.610	30	6 765	3 951	7.700	1.423	30	6 071	8 512	6.200	4.067
17 00	6 487	6 455	6.169	7.459	47 00	6 058	3 178	7.261	1.041	77 00	5 123	7 475	5.611	3.556
30	106 201	116 143	65.991	57.305	30	75 346	82 400	46.818	40.656	30	24 172	26 435	15.020	13.043
18 00	5 906	5 820	5.808	7.146	48 00	4 628	1 614	6.372	40.268	78 00	3 220	5 394	4.428	2.529
30	5 604	5 490	5.620	6.983	30	3 904	0 822	5.922	39.877	30	2 266	4 350	3.886	2.014
19 00	5 294	5 151	5.427	6.816	49 00	3 174	80 024	5.469	9.484	79 00	1 311	3 306	3.242	1.499
30	4 975	4 801	5.229	6.644	30	2 439	79 220	5.012	9.088	30	20 353	2 258	2.647	0.983
20 00	104 649	114 445	65.026	56.468	50 00	71 698	78 410	44.552	38.688	80 00	19 394	21 210	12.051	10.465
30	4 314	4 079	4.818	6.287	30	0 952	7 594	4.088	8.285	30	8 434	20 160	1.455	9.947
21 00	3 972	3 705	4.606	6.102	51 00	70 200	6 771	3.621	7.880	81 00	7 472	19 108	0.857	9.428
30	3 622	3 322	4.389	5.913	30	69 443	5 944	3.150	7.472	30	6 509	8 054	10.258	8.908
22 00	3 264	2 931	4.166	5.720	52 00	8 680	5 109	2.676	7.060	82 00	5 545	7 000	9.659	8.388
30	102 898	112 530	63.938	55.523	30	67 913	74 270	42.199	36.646	30	14 579	15 944	9.059	7.867
23 00	2 524	2 121	3.706	5.321	53 00	7 140	3 425	1.719	6.229	83 00	3 612	4 886	8.453	7.345
30	2 143	1 705	3.469	5.115	30	6 361	2 573	1.235	5.809	30	2 644	3 828	7.857	6.823
24 00	1 754	1 279	3.228	4.905	54 00	5 578	1 717	0.749	5.386	84 00	1 675	2 768	7.255	6.300
30	1 357	0 845	2.981	4.691	30	4 790	70 855	40.259	4.960	30	10 706	1 708	6.652	5.776
25 00	100 952	110 402	62.729	54.473	55 00	63 996	69 987	39.766	34.532	85 00	9 735	10 646	6.049	5.253
30	0 539	109 951	2.473	4.250	30	3 198	9 114	9.270	4.101	30	8 764	9 554	5.446	4.729
26 00	100 119	9 491	2.212	4.024	56 00	2 395	8 236	8.771	3.668	86 00	7 792	8 521	4.842	4.205
30	99 692	9 024	1.946	3.793	30	1 587	7 362	8.269	3.232	30	6 819	7 457	4.237	3.680
27 00	9 257	8 549	1.676	3.558	57 00	60 774	6 463	7.764	2.794	87 00	5 846	6 393	3.632	3.154
30	98 814	108 064	61.401	53.319	30	59 957	65 570	37.256	32.353	30	4 872	5 328	3.027	2.629
28 00	8 364	7 572	1.122	3.076	58 00	9 135	4 671	6.745	1.909	88 00	3 898	4 263	2.422	2.103
30	7 906	7 071	0.837	2.829	30	8 309	3 767	6.232	1.463	30	2 924	3 198	1.817	1.578
29 00	7 441	6 563	0.548	2.578	59 00	7 478	2 859	5.716	1.015	89 00	1 949	2 131	1.211	1.052
30	6 968	6 045	60.254	2.323	30	6 642	1 944	5.196	0.564	30	975	1 066	0.606	0.526
30 00	96 488	105 520	59.956	52.064	60 00	55 802	61 026	34.674	30.110	90 00	0	0	0	0

TERRESTRIAL ARCS

LENGTHS OF DEGREES OF THE MERIDIAN

Lat.	Meters ¹	Yards	Statute miles	Nautical miles	Lat.	Meters ¹	Yards	Statute miles	Nautical miles
°					°				
0-1	110 567.3	120 917.6	68.703	59.661	45-46	111 140.8	121 544.8	69.060	59.971
1-2	110 568.0	120 918.4	68.704	59.662	46-47	111 160.5	121 566.4	69.072	59.981
2-3	110 569.4	120 919.9	68.705	59.662	47-48	111 180.2	121 587.9	69.084	59.992
3-4	110 571.4	120 922.1	68.706	59.664	48-49	111 199.9	121 609.4	69.096	60.003
4-5	110 574.1	120 925.1	68.707	59.665	49-50	111 219.5	121 630.9	69.108	60.013
5-6	110 577.6	120 928.0	68.710	59.667	50-51	111 239.0	121 652.2	69.121	60.024
6-7	110 581.6	120 933.3	68.712	59.669	51-52	111 258.3	121 673.3	69.133	60.034
7-8	110 586.4	120 938.5	68.715	59.672	52-53	111 277.6	121 694.4	69.145	60.045
8-9	110 591.8	120 944.4	68.718	59.675	53-54	111 296.6	121 715.2	69.156	60.055
9-10	110 597.8	120 951.0	68.722	59.678	54-55	111 315.4	121 735.8	69.168	60.065
10-11	110 604.5	120 958.3	68.726	59.681	55-56	111 334.0	121 756.1	69.180	60.075
11-12	110 611.9	120 966.4	68.731	59.685	56-57	111 352.4	121 776.2	69.191	60.085
12-13	110 619.8	120 975.0	68.736	59.690	57-58	111 370.5	121 796.0	69.202	60.095
13-14	110 628.4	120 984.4	68.741	59.694	58-59	111 388.4	121 815.6	69.213	60.104
14-15	110 637.6	120 994.5	68.747	59.699	59-60	111 405.9	121 834.7	69.224	60.114
15-16	110 647.5	121 005.3	68.753	59.705	60-61	111 423.1	121 853.5	69.235	60.123
16-17	110 657.8	121 016.6	68.759	59.710	61-62	111 439.9	121 871.9	69.246	60.132
17-18	110 668.8	121 028.6	68.766	59.716	62-63	111 456.4	121 890.0	69.256	60.141
18-19	110 680.4	121 041.3	68.773	59.722	63-64	111 472.4	121 907.5	69.266	60.150
19-20	110 692.4	121 054.4	68.781	59.729	64-65	111 488.1	121 924.6	69.275	60.158
20-21	110 705.1	121 068.3	68.789	59.736	65-66	111 503.3	121 941.2	69.285	60.166
21-22	110 718.2	121 082.7	68.797	59.743	66-67	111 518.0	121 957.3	69.294	60.174
22-23	110 731.8	121 097.5	68.805	59.750	67-68	111 532.3	121 973.0	69.303	60.182
23-24	110 746.0	121 113.1	68.814	59.758	68-69	111 546.2	121 988.2	69.311	60.190
24-25	110 760.6	121 129.0	68.823	59.765	69-70	111 559.5	122 002.7	69.320	60.197
25-26	110 775.6	121 145.4	68.833	59.774	70-71	111 572.2	122 016.6	69.328	60.204
26-27	110 791.1	121 162.4	68.842	59.782	71-72	111 584.5	122 030.0	69.335	60.210
27-28	110 807.0	121 179.8	68.852	59.791	72-73	111 596.2	122 042.8	69.343	60.217
28-29	110 823.3	121 197.6	68.862	59.800	73-74	111 607.3	122 055.0	69.349	60.223
29-30	110 840.0	121 215.9	68.873	59.808	74-75	111 617.9	122 066.6	69.356	60.228
30-31	110 857.0	121 234.4	68.883	59.818	75-76	111 627.8	122 077.4	69.362	60.234
31-32	110 874.4	121 253.5	68.894	59.827	76-77	111 637.1	122 087.6	69.368	60.239
32-33	110 892.1	121 272.8	68.905	59.837	77-78	111 645.9	122 097.2	69.373	60.243
33-34	110 910.1	121 292.5	68.916	59.846	78-79	111 653.9	122 105.9	69.378	60.248
34-35	110 928.3	121 312.4	68.928	59.856	79-80	111 661.4	122 114.1	69.383	60.252
35-36	110 946.9	121 332.8	68.939	59.866	80-81	111 668.2	122 121.6	69.387	60.255
36-37	110 965.6	121 353.2	68.951	59.876	81-82	111 674.4	122 128.4	69.391	60.259
37-38	110 984.5	121 373.9	68.962	59.886	82-83	111 679.9	122 134.4	69.395	60.262
38-39	111 003.7	121 394.9	68.974	59.897	83-84	111 684.7	122 139.6	69.398	60.264
39-40	111 023.0	121 416.0	68.986	59.907	84-85	111 688.9	122 144.2	69.400	60.268
40-41	111 042.4	121 437.2	68.998	59.918	85-86	111 692.3	122 147.9	69.402	60.268
41-42	111 061.9	121 458.5	69.011	59.928	86-87	111 695.1	122 151.0	69.404	60.270
42-43	111 081.6	121 480.1	69.023	59.939	87-88	111 697.2	122 153.3	69.405	60.271
43-44	111 101.3	121 501.6	69.035	59.949	88-89	111 698.6	122 154.8	69.406	60.272
44-45	111 121.0	121 523.2	69.047	59.960	89-90	111 699.3	122 155.6	69.407	60.272

¹ The quantities in this column are identical with those on the odd-numbered pages in the body of the table at the bottom of the column headed "Continuous sums of minutes."

CONSTRUCTION OF POLYCONIC PROJECTIONS

Having the location to be covered by a projection, determine the scale and the interval of the projection lines which will be most suitable for the work in hand.

SMALL-SCALE PROJECTIONS (1:500,000 AND SMALLER)

Draw a straight line for a central meridian and a construction line (ab in the figure) perpendicular thereto, each to be as central to the sheet as the selected interval of latitude and longitude will permit.

On this central meridian and from its intersection with the construction line lay off the extreme intervals of latitude, north and south (mm_2 and mm_4) and subdivide the intervals for each parallel (m_1 and m_3) to be represented, all distances ⁵ being taken from the table (p. 7, "Lengths of degrees of the meridian").

Through each of the points (m_1, m_2, m_3, m_4) on the central meridian draw additional construction lines (cd, ef, gh, ij) perpendicular to the central meridian, and mark off the ordinates ($x, x_1, x_2, x_3, x_4, x_5$) from the central meridian corresponding to the values ⁵ of "X" taken from the table under "Coordinates of curvature" (pp. 11 to 189), for every meridian to be represented.

At the points ($x, x_1, x_2, x_3, x_4, x_5$) lay off from each of the construction lines the corresponding values ⁵ of "Y" from the table under "Coordinates of curvature" (pp. 11 to 189), in a direction parallel to the central meridian, above the construction lines if north of the equator, to determine points on the meridians and parallels.

Draw curved lines through the points thus determined for the meridians and parallels of the projection.

LARGE-SCALE PROJECTIONS (1:10,000 AND LARGER)

The above method can be much simplified in constructing a projection on a large scale. Draw the central meridian and the construction line ab , as directed above. On the central meridian lay off the distances ⁵ mm_2 and mm_4 taken from the table under "Continuous sums of minutes" for the intervals in minutes between the middle parallel and the extreme parallels to be represented, and through the points m_2 and m_4 draw straight lines cd and ef parallel to the line ab . On the lines $ab, cd,$ and ef lay off the distances ⁵ $m_1x_5, m_2x_5,$ and m_4x_5 on both sides of the central meridian, taking the values from the table under "Arcs of the parallel in meters" corresponding to the latitude of the points $m, m_2,$ and $m_4,$ respectively. Draw straight lines through the points thus determined, $x_5,$ for the extreme meridians.

At the points x_5 on the line ab lay off the value ⁵ of "Y" corresponding to the intervals in minutes between the central and the extreme meridians, as given in the table under "Coordinates of curvature", in a direction parallel with the central meridian and above the line, if north of the equator, to determine points in the central parallel. Draw straight lines from these points to the point m for the middle parallel, and from the points of intersection with the extreme meridians lay off distances ⁵ on the extreme meridians, above and below, equal to the distances mm_2 and mm_4 to locate points in the extreme parallels.

Subdivide the 3 meridians and 3 parallels into parts corresponding to the projection interval and join the corresponding points of subdivision by straight lines to complete the projection.

⁵ The lengths of the arcs of the meridians and parallels change when the latitude changes and all distances must be taken from the table opposite the latitude of the point in use.

⁶ Approximate method of deriving the values of y intermediate between those shown in the table.

The ratio of any two successive ordinates of curvature, expressed in meters, equals the ratio of the squares of the corresponding abscissae expressed in minutes or degrees.

Examples.—Latitude 60° to 61° . Given the value of y for longitude $50'$, 292.8 (see table), to obtain the value of y for longitude $55'$.

$$\frac{(55)^2}{(50)^2} = \frac{y}{292.8}; \text{ hence } y = 354.83 \text{ (see table).}$$

Similarly, y for $3^\circ = 3795^m$.

$$\frac{4^2}{3^2} = \frac{y}{3795}; \text{ hence } y \text{ for } 4^\circ = 6747^m,$$

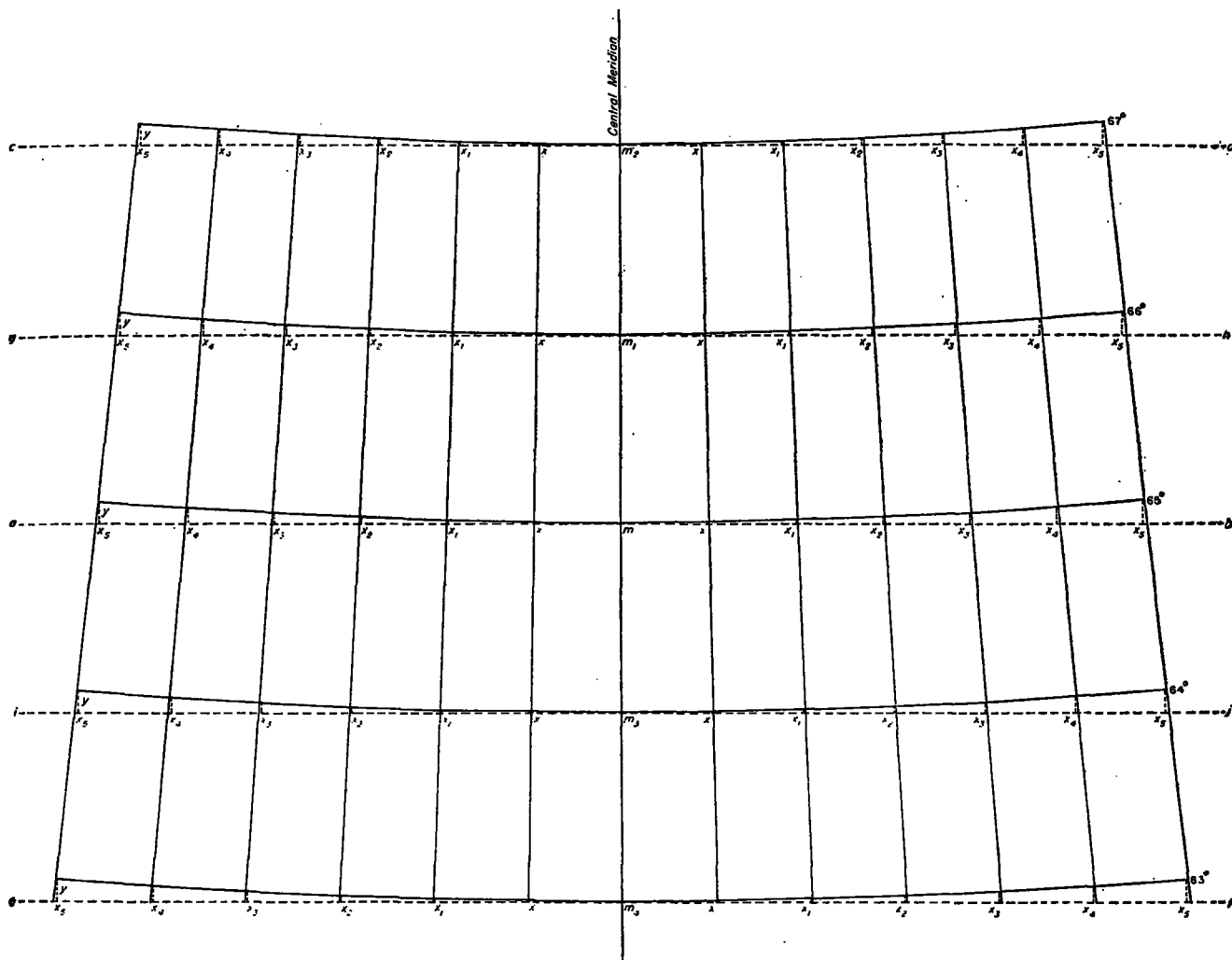
which differs 2^m from the tabular value, a negligible quantity for the intermediate values of y under most conditions.

To construct a projection on an intermediate scale, follow the rigid method for small-scale projections to the extent required to give a projection as accurate as can be constructed graphically.

In the "large-scale projection" method, the use of the table of "Arcs of the parallel" instead of X coordinates, although not theoretically correct, is sufficiently accurate for projections even up to scale 1:40,000. Due to the fact that the X coordinates are not supplied in the table for latitudes intermediate between degrees, it is convenient to use arc lengths instead of X coordinates in order to avoid interpolation. However, it becomes necessary in projections of large longitudinal extent in scales smaller than 1:40,000 to apply a check on the two sets of values, and to use the X coordinates when they become smaller than the values taken from the "Arcs of the parallel."

A more frequent use of Y coordinates is necessary as scales become smaller than 1:10,000. On intermediate scales up to 1:40,000 it is generally sufficient to apply the Y coordinates on the central, upper, and middle parallels at their extremities, and at intermediate intervals of such frequency as will be graphically needful.

Coordinates for the projection of maps on various scales with the inch as unit, are published by the United States Geological Survey in Bulletin 650, Geographic Tables and Formulas, pages 34 to 107.



UNITED STATES COAST AND GEODETIC SURVEY

Latitude 0° to 1°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
0 00	30.922	61.84	92.77	123.69	154.61	185.53	216.46	247.38	278.30	1855.3	3710.7	5566.0	7421.4	9276.7
1	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
2	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
3	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
4	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
0 05	30.922	61.84	92.77	123.69	154.61	185.53	216.46	247.38	278.30	1855.3	3710.7	5566.0	7421.4	9276.7
6	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
7	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
8	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
9	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
0 10	30.922	61.84	92.77	123.69	154.61	185.53	216.46	247.38	278.30	1855.3	3710.7	5566.0	7421.3	9276.7
11	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.3	6.7
12	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.3	6.7
13	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.3	6.7
14	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.3	6.7
0 15	30.922	61.84	92.77	123.69	154.61	185.53	216.45	247.38	278.30	1855.3	3710.7	5566.0	7421.3	9276.6
16	.922	.84	.77	.69	.61	.53	.45	.38	.30	5.3	0.7	6.0	1.3	6.6
17	.922	.84	.77	.69	.61	.53	.45	.38	.30	5.3	0.6	6.0	1.3	6.6
18	.922	.84	.77	.69	.61	.53	.45	.38	.30	5.3	0.6	6.0	1.3	6.6
19	.922	.84	.77	.69	.61	.53	.45	.38	.30	5.3	0.6	6.0	1.3	6.6
0 20	30.922	61.84	92.77	123.69	154.61	185.53	216.45	247.38	278.30	1855.3	3710.6	5565.9	7421.2	9276.6
21	.922	.84	.77	.69	.61	.53	.45	.37	.30	5.3	0.6	5.9	1.2	6.6
22	.922	.84	.77	.69	.61	.53	.45	.37	.30	5.3	0.6	5.9	1.2	6.5
23	.922	.84	.77	.69	.61	.53	.45	.37	.30	5.3	0.6	5.9	1.2	6.5
24	.922	.84	.77	.69	.61	.53	.45	.37	.30	5.3	0.6	5.9	1.2	6.5
0 25	30.922	61.84	92.76	123.68	154.61	185.53	216.45	247.37	278.30	1855.3	3710.6	5565.9	7421.2	9276.5
26	.922	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.6	5.9	1.2	6.5
27	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.6	5.9	1.1	6.4
28	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.6	5.9	1.1	6.4
29	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.6	5.8	1.1	6.4
0 30	30.921	61.84	92.76	123.68	154.61	185.53	216.45	247.37	278.29	1855.3	3710.5	5565.8	7421.1	9276.4
31	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.5	5.8	1.1	6.4
32	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.5	5.8	1.0	6.3
33	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	0.5	5.8	1.0	6.3
34	.921	.84	.76	.68	.60	.53	.45	.37	.29	5.3	0.5	5.8	1.0	6.3
0 35	30.921	61.84	92.76	123.68	154.60	185.52	216.45	247.37	278.29	1855.2	3710.5	5565.7	7421.0	9276.3
36	.921	.84	.76	.68	.60	.52	.44	.37	.29	5.2	0.5	5.7	1.0	6.2
37	.921	.84	.76	.68	.60	.52	.44	.36	.29	5.2	0.5	5.7	1.0	6.2
38	.921	.84	.76	.68	.60	.52	.44	.36	.29	5.2	0.5	5.7	0.9	6.2
39	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.5	5.7	0.9	6.1
0 40	30.920	61.84	92.76	123.68	154.60	185.52	216.44	247.36	278.28	1855.2	3710.4	5565.7	7420.9	9276.1
41	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.4	5.6	0.9	6.1
42	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.4	5.6	0.8	6.0
43	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.4	5.6	0.8	6.0
44	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.4	5.6	0.8	6.0
0 45	30.920	61.84	92.76	123.68	154.60	185.52	216.44	247.36	278.28	1855.2	3710.4	5565.6	7420.7	9275.9
46	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.4	5.5	0.7	5.9
47	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.3	5.5	0.7	5.9
48	.919	.84	.76	.68	.60	.52	.44	.36	.28	5.2	0.3	5.5	0.7	5.8
49	.919	.84	.76	.68	.60	.52	.44	.35	.27	5.2	0.3	5.5	0.6	5.8
0 50	30.919	61.84	92.76	123.68	154.60	185.51	216.43	247.35	278.27	1855.1	3710.3	5565.4	7420.6	9275.7
51	.919	.84	.76	.68	.60	.51	.43	.35	.27	5.1	0.3	5.4	0.6	5.7
52	.919	.84	.76	.68	.59	.51	.43	.35	.27	5.1	0.3	5.4	0.5	5.7
53	.919	.84	.76	.68	.59	.51	.43	.35	.27	5.1	0.3	5.4	0.5	5.6
54	.919	.84	.76	.67	.59	.51	.43	.35	.27	5.1	0.2	5.4	0.5	5.6
0 55	30.918	61.84	92.76	123.67	154.59	185.51	216.43	247.35	278.27	1855.1	3710.2	5565.3	7420.4	9275.5
56	.918	.84	.75	.67	.59	.51	.43	.35	.27	5.1	0.2	5.3	0.4	5.5
57	.918	.84	.75	.67	.59	.51	.43	.35	.26	5.1	0.2	5.3	0.4	5.5
58	.918	.84	.75	.67	.59	.51	.43	.34	.26	5.1	0.2	5.2	0.3	5.4
59	.918	.84	.75	.67	.59	.51	.43	.34	.26	5.1	0.1	5.2	0.3	5.4
0 60	30.918	61.84	92.75	123.67	154.59	185.51	216.42	247.34	278.26	1855.1	3710.1	5565.2	7420.3	9275.3

Lat.	Latitude 0° to 1°—Meridional arcs						Latitude 0°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 0°30'		Value of 1'	Continuous sums of minutes from latitude 0°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
0 00	30.713								
1	3	1	30.71	1842.79	1	1 842.8	0 1	1 855.3	0.0
2	3	2	61.43	.79	2	3 685.6	2	3 710.7	
3	3	3	92.14	.79	3	5 528.4	3	5 566.0	
4	3	4	122.85	.79	4	7 371.1	4	7 421.4	
0 05	30.713	5	153.56	1842.79	5	9 213.9	0 5	9 276.7	0.0
6	3	6	184.28	.79	6	11 056.7	6	11 132.1	
7	3	7	214.99	.79	7	12 899.5	7	12 987.4	
8	3	8	245.70	.79	8	14 742.3	8	14 842.8	
9	3	9	276.42	.79	9	16 585.1	9	16 698.1	
0 10	30.713	10	307.13	1842.79	10	18 427.9	0 10	18 553.4	0.0
11	3	1	337.84	.79	1	20 270.7	15	27 830.2	
12	3	2	368.56	.79	2	22 113.4	20	37 106.9	
13	3	3	399.27	.79	3	23 956.2	25	46 383.6	
14	3	4	429.98	.79	4	25 799.0	30	55 660.3	
0 15	30.713	15	460.69	1842.79	15	27 641.8	0 35	64 937.1	0.0
16	3	6	491.41	.79	6	29 484.6	40	74 213.8	
17	3	7	522.12	.79	7	31 327.4	45	83 490.5	
18	3	8	552.83	.79	8	33 170.2	50	92 767.2	
19	3	9	583.55	.79	9	35 013.0	55	102 044.0	
0 20	30.713	20	614.26	1842.79	20	36 855.8	1 00	111 320.7	0.0
21	3	1	644.97	.79	1	38 698.5	05	120 597.4	
22	3	2	675.69	.79	2	40 541.3	10	129 874.1	
23	3	3	706.40	.79	3	42 384.1	15	139 150.9	
24	3	4	737.11	.79	4	44 226.9	20	148 427.6	
0 25	30.713	25	767.82	1842.79	25	46 069.7	1 25	157 704.3	0.0
26	3	6	798.54	.79	6	47 912.5	30	166 981.0	
27	3	7	829.25	.79	7	49 755.3	35	176 257.8	
28	3	8	859.96	.79	8	51 598.1	40	185 534.5	
29	3	9	890.68	.79	9	53 440.9	45	194 811.2	
0 30	30.713	30	921.39	1842.79	30	55 283.6	1 50	204 087.9	0.0
31	3	1	952.10	.79	1	57 126.4	55	213 364.7	
32	3	2	982.82	.79	2	58 969.2	2 00	222 641	
33	3	3	1 013.53	.79	3	60 812.0	3 00	333 962	
34	3	4	1 044.24	.79	4	62 654.8	4 00	445 283	
0 35	30.713	35	1 074.95	1842.79	35	64 497.6	5 00	556 603	0.0
36	3	6	1 105.67	.79	6	66 340.4	6 00	667 924	
37	3	7	1 136.38	.79	7	68 183.2	7 00	779 245	
38	3	8	1 167.09	.79	8	70 026.0	8 00	890 566	
39	3	9	1 197.81	.79	9	71 868.7	9 00	1 001 886	
0 40	30.713	40	1 228.52	1842.79	40	73 711.5	10 00	1 113 207	0.0
41	3	1	1 259.23	.79	1	75 554.3	11 00	1 224 528	
42	3	2	1 289.95	.79	2	77 397.1	12 00	1 335 848	
43	3	3	1 320.66	.79	3	79 239.9	13 00	1 447 169	
44	3	4	1 351.37	.79	4	81 082.7	14 00	1 558 490	
0 45	30.713	45	1 382.08	1842.79	45	82 925.5	15 00	1 669 810	0.0
46	3	6	1 412.80	.79	6	84 768.3	16 00	1 781 131	
47	3	7	1 443.51	.79	7	86 611.0	17 00	1 892 452	
48	3	8	1 474.22	.79	8	88 453.8	18 00	2 003 772	
49	3	9	1 504.94	.79	9	90 296.6	19 00	2 115 093	
0 50	30.713	50	1 535.65	1842.79	50	92 139.4	20 00	2 226 414	0.0
51	3	1	1 566.36	.79	1	93 982.2	21 00	2 337 735	
52	3	2	1 597.08	.79	2	95 825.0	22 00	2 449 055	
53	3	3	1 627.79	.79	3	97 667.8	23 00	2 560 376	
54	3	4	1 658.50	.79	4	99 510.6	24 00	2 671 697	
0 55	30.713	55	1 689.21	1842.79	55	101 353.4	25 00	2 783 017	0.0
56	3	6	1 719.93	.79	6	103 196.2	26 00	2 894 338	
57	3	7	1 750.64	.79	7	105 038.9	27 00	3 005 659	
58	3	8	1 781.35	.79	8	106 881.7	28 00	3 116 979	
59	3	9	1 812.07	.79	9	108 724.5	29 00	3 228 300	
0 60	30.713	60	1 842.79	1842.79	60	110 567.3	30 00	3 339 621	0.0

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 1° to 2°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
1 00	30.918	61.84	92.75	123.67	154.59	185.51	216.42	247.34	278.26	1855.1	3710.1	5565.2	7420.3	9275.3
1 01	.918	.84	.75	.67	.59	.51	.42	.34	.26	5.1	0.1	5.2	0.2	5.3
1 02	.917	.83	.75	.67	.59	.50	.42	.34	.26	5.0	0.1	5.1	0.2	5.2
1 03	.917	.83	.75	.67	.59	.50	.42	.34	.26	5.0	0.1	5.1	0.1	5.2
1 04	.917	.83	.75	.67	.59	.50	.42	.34	.25	5.0	0.0	5.1	0.1	5.1
1 05	30.917	61.83	92.75	123.67	154.58	185.50	216.42	247.34	278.25	1855.0	3710.0	5565.0	7420.1	9275.1
1 06	.917	.83	.75	.67	.58	.50	.42	.33	.25	5.0	0.0	5.0	0.0	5.0
1 07	.917	.83	.75	.67	.58	.50	.42	.33	.25	5.0	0.0	5.0	20.0	5.0
1 08	.916	.83	.75	.67	.58	.50	.41	.33	.25	5.0	10.0	5.0	19.9	4.9
1 09	.916	.83	.75	.66	.58	.50	.41	.33	.24	5.0	09.9	4.9	9.9	4.9
1 10	30.916	61.83	92.75	123.66	154.58	185.50	216.41	247.33	278.24	1855.0	3709.9	5564.9	7419.9	9274.8
1 11	.916	.83	.75	.66	.58	.50	.41	.33	.24	5.0	9.9	4.9	9.8	4.8
1 12	.916	.83	.75	.66	.58	.49	.41	.33	.24	4.9	9.9	4.8	9.8	4.7
1 13	.915	.83	.75	.66	.58	.49	.41	.32	.24	4.9	9.8	4.8	9.7	4.6
1 14	.915	.83	.75	.66	.58	.49	.41	.32	.24	4.9	9.8	4.8	9.7	4.6
1 15	30.915	61.83	92.75	123.66	154.58	185.49	216.41	247.32	278.24	1854.9	3709.8	5564.7	7419.6	9274.5
1 16	.915	.83	.74	.66	.57	.49	.40	.32	.23	4.9	9.8	4.7	9.6	4.5
1 17	.915	.83	.74	.66	.57	.49	.40	.32	.23	4.9	9.8	4.6	9.5	4.4
1 18	.915	.83	.74	.66	.57	.49	.40	.32	.23	4.9	9.7	4.6	9.5	4.4
1 19	.914	.83	.74	.66	.57	.49	.40	.31	.23	4.9	9.7	4.6	9.4	4.3
1 20	30.914	61.83	92.74	123.66	154.57	185.48	216.40	247.31	278.23	1854.8	3709.7	5564.5	7419.4	9274.2
1 21	.914	.83	.74	.66	.57	.48	.40	.31	.23	4.8	9.7	4.5	9.3	4.2
1 22	.914	.83	.74	.65	.57	.48	.40	.31	.22	4.8	9.6	4.5	9.3	4.1
1 23	.913	.83	.74	.65	.57	.48	.39	.31	.22	4.8	9.6	4.4	9.2	4.0
1 24	.913	.83	.74	.65	.57	.48	.39	.31	.22	4.8	9.6	4.4	9.2	4.0
1 25	30.913	61.83	92.74	123.65	154.57	185.48	216.39	247.30	278.22	1854.8	3709.6	5564.3	7419.1	9273.9
1 26	.913	.83	.74	.65	.56	.48	.39	.30	.22	4.8	9.5	4.3	9.1	3.8
1 27	.913	.83	.74	.65	.56	.48	.39	.30	.21	4.8	9.5	4.3	9.0	3.8
1 28	.912	.82	.74	.65	.56	.47	.39	.30	.21	4.7	9.5	4.2	9.0	3.7
1 29	.912	.82	.74	.65	.56	.47	.38	.30	.21	4.7	9.5	4.2	8.9	3.6
1 30	30.912	61.82	92.74	123.65	154.56	185.47	216.38	247.30	278.21	1854.7	3709.4	5564.1	7418.9	9273.6
1 31	.912	.82	.73	.65	.56	.47	.38	.29	.20	4.7	9.4	4.1	8.8	3.5
1 32	.911	.82	.73	.65	.56	.47	.38	.29	.20	4.7	9.4	4.1	8.8	3.4
1 33	.911	.82	.73	.64	.56	.47	.38	.29	.20	4.7	9.3	4.0	8.7	3.4
1 34	.911	.82	.73	.64	.55	.47	.38	.29	.20	4.7	9.3	4.0	8.6	3.3
1 35	30.911	61.82	92.73	123.64	154.55	185.46	216.37	247.29	278.20	1854.6	3709.3	5563.9	7418.6	9273.2
1 36	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	9.2	3.9	8.5	3.1
1 37	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	9.2	3.8	8.4	3.1
1 38	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	9.2	3.8	8.4	3.0
1 39	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	9.2	3.7	8.3	2.9
1 40	30.909	61.82	92.73	123.64	154.55	185.46	216.37	247.28	278.18	1854.6	3709.1	5563.7	7418.3	9272.8
1 41	.909	.82	.73	.64	.55	.45	.36	.27	.18	4.5	9.1	3.6	8.2	2.7
1 42	.909	.82	.73	.64	.54	.45	.36	.27	.18	4.5	9.0	3.6	8.1	2.7
1 43	.909	.82	.73	.63	.54	.45	.36	.27	.18	4.5	9.0	3.6	8.1	2.6
1 44	.908	.82	.73	.63	.54	.45	.36	.27	.18	4.5	9.0	3.5	8.0	2.5
1 45	30.908	61.82	92.72	123.63	154.54	185.45	216.36	247.26	278.17	1854.5	3708.9	5563.5	7417.9	9272.4
1 46	.908	.82	.72	.63	.54	.45	.35	.26	.17	4.5	8.9	3.4	7.9	2.3
1 47	.908	.82	.72	.63	.54	.45	.35	.26	.17	4.5	8.9	3.4	7.8	2.3
1 48	.907	.81	.72	.63	.54	.44	.35	.26	.17	4.4	8.9	3.3	7.7	2.2
1 49	.907	.81	.72	.63	.53	.44	.35	.26	.16	4.4	8.8	3.3	7.7	2.1
1 50	30.907	61.81	92.72	123.63	154.53	185.44	216.35	247.25	278.16	1854.4	3708.8	5563.2	7417.6	9272.0
1 51	.906	.81	.72	.63	.53	.44	.34	.25	.16	4.4	8.8	3.1	7.5	1.9
1 52	.906	.81	.72	.62	.53	.44	.34	.25	.15	4.4	8.7	3.1	7.4	1.8
1 53	.906	.81	.72	.62	.53	.43	.34	.25	.15	4.3	8.7	3.0	7.4	1.7
1 54	.906	.81	.72	.62	.53	.43	.34	.24	.15	4.3	8.7	3.0	7.3	1.7
1 55	30.905	61.81	92.72	123.62	154.53	185.43	216.34	247.24	278.15	1854.3	3708.6	5562.9	7417.3	9271.6
1 56	.905	.81	.71	.62	.52	.43	.33	.24	.14	4.3	8.6	2.9	7.2	1.5
1 57	.905	.81	.71	.62	.52	.43	.33	.24	.14	4.3	8.5	2.8	7.1	1.4
1 58	.904	.81	.71	.62	.52	.43	.33	.23	.14	4.3	8.5	2.8	7.0	1.3
1 59	.904	.81	.71	.62	.52	.42	.33	.23	.14	4.2	8.5	2.7	7.0	1.2
1 60	30.904	61.81	92.71	123.61	154.52	185.42	216.33	247.23	278.13	1854.2	3708.4	5562.7	7416.9	9271.1

Lat.	Latitude 1° to 2°—Meridional arcs					Latitude 1°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 1°30'		Value of 1'	Continuous sums of minutes from latitude 1°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
1 00	30. 713			1842. 79			0 1	1 855. 1	0. 0
1	3	1	30. 71	. 79	1	1 842. 8	0 2	3 710. 1	0. 0
2	3	2	61. 43	. 79	2	3 685. 6	0 3	5 565. 2	0. 0
3	3	3	92. 14	. 79	3	5 528. 4	0 4	7 420. 3	0. 1
4	3	4	122. 85	. 79	4	7 371. 2			
1 05	30. 713	5	153. 57	1842. 79	5	9 214. 0	0 5	9 275. 3	0. 1
6	3	6	184. 28	. 79	6	11 056. 8	0 6	11 130. 4	0. 2
7	3	7	215. 00	. 79	7	12 899. 6	0 7	12 985. 4	0. 2
8	3	8	245. 71	. 79	8	14 742. 3	0 8	14 840. 5	0. 3
9	3	9	276. 42	. 79	9	16 585. 1	0 9	16 695. 6	0. 4
1 10	30. 713	10	307. 14	1842. 79	10	18 427. 9	0 10	18 550. 6	0. 5
11	3	1	337. 85	. 79	1	20 270. 7	0 15	27 826. 0	1. 1
12	3	2	368. 56	. 80	2	22 113. 5	0 20	37 101. 3	1. 9
13	3	3	399. 28	. 80	3	23 956. 3	0 25	46 376. 6	2. 9
14	3	4	429. 99	. 80	4	25 799. 1	0 30	55 651. 9	4. 2
1 15	30. 713	15	460. 70	1842. 80	15	27 641. 9	0 35	64 927. 2	5. 8
16	3	6	491. 42	. 80	6	29 484. 7	0 40	74 202. 5	7. 5
17	3	7	522. 13	. 80	7	31 327. 5	0 45	83 477. 8	9. 5
18	3	8	552. 84	. 80	8	33 170. 3	0 50	92 753. 2	11. 7
19	3	9	583. 56	. 80	9	35 013. 1	0 55	102 028. 5	14. 2
1 20	30. 713	20	614. 27	1842. 80	20	36 855. 9	1 00	111 303. 7	16. 9
21	3	1	644. 98	. 80	1	38 698. 7	1 05	120 579. 0	19. 9
22	3	2	675. 70	. 80	2	40 541. 5	1 10	129 854. 3	23. 0
23	3	3	706. 41	. 80	3	42 384. 3	1 15	139 129. 6	26. 4
24	3	4	737. 12	. 80	4	44 227. 1	1 20	148 404. 9	30. 1
1 25	30. 713	25	767. 84	1842. 80	25	46 069. 9	1 25	157 680. 2	34. 0
26	3	6	798. 55	. 80	6	47 912. 7	1 30	166 955. 5	38. 1
27	3	7	829. 26	. 80	7	49 755. 5	1 35	176 230. 8	42. 4
28	3	8	859. 98	. 80	8	51 598. 3	1 40	185 506. 1	47. 0
29	3	9	890. 69	. 80	9	53 441. 1	1 45	194 781. 4	51. 8
1 30	30. 713	30	921. 40	1842. 80	30	55 283. 9	1 50	204 056. 7	56. 9
31	3	1	952. 12	. 80	1	57 126. 7	1 55	213 331. 9	62. 2
32	3	2	982. 83	. 80	2	58 969. 5	2 00	222 607	68
33	3	3	1 013. 54	. 80	3	60 812. 3	2 05	333 911	153
34	3	4	1 044. 26	. 80	4	62 655. 1	2 10	445 214	271
1 35	30. 713	35	1 074. 97	1842. 80	35	64 497. 9	5 00	556 518	424
36	3	6	1 105. 68	. 80	6	66 340. 7	6 00	667 822	610
37	3	7	1 136. 40	. 80	7	68 183. 5	7 00	779 126	831
38	3	8	1 167. 11	. 80	8	70 026. 3	8 00	890 429	1 085
39	3	9	1 197. 82	. 80	9	71 869. 1	9 00	1 001 733	1 373
1 40	30. 713	40	1 228. 54	1842. 80	40	73 711. 9	10 00	1 113 037	1 695
41	3	1	1 259. 25	. 80	1	75 554. 7	11 00	1 224 340	2 051
42	3	2	1 289. 96	. 80	2	77 397. 5	12 00	1 335 643	2 441
43	3	3	1 320. 68	. 80	3	79 240. 3	13 00	1 446 946	2 865
44	3	4	1 351. 39	. 81	4	81 083. 1	14 00	1 558 249	3 323
45	30. 713	45	1 382. 10	1842. 81	45	82 925. 9	15 00	1 669 551	3 814
46	3	6	1 412. 82	. 81	6	84 768. 7	16 00	1 780 854	4 340
47	3	7	1 443. 53	. 81	7	86 611. 5	17 00	1 892 157	4 899
48	3	8	1 474. 24	. 81	8	88 454. 3	18 00	2 003 459	5 492
49	3	9	1 504. 96	. 81	9	90 297. 1	19 00	2 114 761	6 120
1 50	30. 713	50	1 535. 67	1842. 81	50	92 139. 9	20 00	2 226 063	6 781
51	3	1	1 566. 38	. 81	1	93 982. 7	21 00	2 337 364	7 476
52	3	2	1 597. 10	. 81	2	95 825. 6	22 00	2 448 666	8 205
53	3	3	1 627. 81	. 81	3	97 668. 4	23 00	2 559 967	8 967
54	3	4	1 658. 52	. 81	4	99 511. 2	24 00	2 671 268	9 764
1 55	30. 713	55	1 689. 23	1842. 81	55	101 354. 0	25 00	2 782 569	10 595
56	3	6	1 719. 95	. 81	6	103 196. 8	26 00	2 893 869	11 459
57	3	7	1 750. 66	. 81	7	105 039. 6	27 00	3 005 170	12 358
58	3	8	1 781. 37	. 81	8	106 882. 4	28 00	3 116 470	13 290
59	3	9	1 812. 09	. 81	9	108 725. 2	29 00	3 227 770	14 256
1 60	30. 714	60	1 842. 80	1842. 81	60	110 568. 0	30 00	3 339 070	15 256

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 2° to 3°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
2 00	30.904	61.81	92.71	123.61	154.52	185.42	216.33	247.23	278.13	1854.2	3708.4	5562.7	7416.9	9271.1
1	.903	.81	.71	.61	.52	.42	.33	.23	.13	4.2	8.4	2.6	6.8	1.0
2	.903	.81	.71	.61	.52	.42	.32	.22	.12	4.2	8.3	2.6	6.7	0.9
3	.903	.81	.71	.61	.51	.41	.32	.22	.12	4.1	8.3	2.5	6.7	0.8
4	.902	.81	.71	.61	.51	.41	.32	.22	.12	4.1	8.2	2.5	6.6	0.7
2 05	30.902	61.81	92.71	123.61	154.51	185.41	216.31	247.21	278.11	1854.1	3708.2	5562.4	7416.5	9270.6
6	.902	.80	.70	.60	.51	.41	.31	.21	.11	4.1	8.2	2.3	6.4	0.5
7	.901	.80	.70	.60	.51	.41	.31	.21	.11	4.1	8.2	2.3	6.3	0.4
8	.901	.80	.70	.60	.50	.40	.31	.21	.11	4.0	8.1	2.2	6.3	0.3
9	.901	.80	.70	.60	.50	.40	.30	.20	.10	4.0	8.1	2.2	6.2	0.2
2 10	30.900	61.80	92.70	123.60	154.50	185.40	216.30	247.20	278.10	1854.0	3708.1	5562.1	7416.1	9270.1
11	.900	.80	.70	.60	.50	.40	.30	.20	.10	4.0	8.0	2.0	6.0	70.0
12	.900	.80	.70	.60	.50	.40	.30	.20	.09	4.0	8.0	2.0	5.9	69.9
13	.899	.80	.70	.60	.50	.39	.29	.19	.09	3.9	7.9	1.9	5.9	9.8
14	.899	.80	.70	.60	.50	.39	.29	.19	.09	3.9	7.9	1.9	5.8	9.7
2 15	30.899	61.80	92.70	123.60	154.50	185.39	216.29	247.19	278.08	1853.9	3707.8	5561.8	7415.7	9269.6
16	.898	.79	.69	.59	.49	.39	.29	.19	.08	3.9	7.8	1.7	5.6	9.5
17	.898	.79	.69	.59	.49	.39	.29	.19	.08	3.9	7.7	1.7	5.5	9.4
18	.898	.79	.69	.59	.49	.38	.28	.18	.08	3.8	7.7	1.6	5.5	9.3
19	.897	.79	.69	.59	.49	.38	.28	.18	.07	3.8	7.6	1.6	5.4	9.2
2 20	30.897	61.79	92.69	123.59	154.49	185.38	216.28	247.18	278.07	1853.8	3707.6	5561.5	7415.3	9269.1
21	.897	.79	.69	.59	.49	.38	.28	.18	.07	3.8	7.6	1.4	5.2	9.0
22	.896	.79	.69	.59	.49	.38	.27	.17	.06	3.8	7.5	1.3	5.1	8.9
23	.896	.79	.69	.58	.48	.37	.27	.17	.06	3.7	7.5	1.3	5.0	8.7
24	.895	.79	.69	.58	.48	.37	.27	.17	.06	3.7	7.4	1.2	4.9	8.6
2 25	30.895	61.79	92.69	123.58	154.48	185.37	216.26	247.16	278.05	1853.7	3707.4	5561.1	7414.8	9268.5
26	.895	.79	.68	.58	.48	.37	.26	.16	.05	3.7	7.4	1.0	4.7	8.4
27	.894	.79	.68	.58	.48	.37	.26	.16	.05	3.7	7.3	1.0	4.6	8.3
28	.894	.79	.68	.57	.47	.36	.26	.16	.05	3.6	7.3	0.9	4.6	8.2
29	.894	.79	.68	.57	.47	.36	.25	.15	.04	3.6	7.2	0.9	4.5	8.1
2 30	30.893	61.79	92.68	123.57	154.47	185.36	216.25	247.15	278.04	1853.6	3707.2	5560.8	7414.4	9268.0
31	.893	.79	.68	.57	.47	.36	.25	.15	.04	3.6	7.1	0.7	4.3	7.9
32	.892	.79	.68	.57	.47	.35	.24	.14	.03	3.5	7.1	0.6	4.2	7.7
33	.892	.79	.68	.57	.46	.35	.24	.14	.03	3.5	7.0	0.6	4.0	7.6
34	.891	.79	.67	.57	.46	.35	.24	.13	.02	3.5	7.0	0.5	3.9	7.4
2 35	30.891	61.79	92.67	123.57	154.46	185.35	216.23	247.13	278.02	1853.5	3706.9	5560.4	7413.8	9267.3
36	.891	.78	.67	.56	.46	.34	.23	.13	.02	3.4	6.9	0.3	3.7	7.2
37	.890	.78	.67	.56	.46	.34	.23	.12	.01	3.4	6.8	0.2	3.6	7.1
38	.890	.78	.67	.56	.45	.34	.23	.12	.01	3.4	6.8	0.2	3.6	6.9
39	.889	.78	.67	.56	.45	.33	.22	.11	.00	3.3	6.7	0.1	3.5	6.8
2 40	30.889	61.78	92.67	123.56	154.45	185.33	216.22	247.11	278.00	1853.3	3706.7	5560.0	7413.4	9266.7
41	.889	.78	.67	.56	.45	.33	.22	.11	8.00	3.3	6.6	59.9	3.3	6.6
42	.888	.78	.67	.56	.44	.33	.21	.10	7.99	3.3	6.6	9.8	3.2	6.5
43	.888	.78	.66	.55	.44	.32	.21	.10	.99	3.2	6.5	9.8	3.0	6.3
44	.887	.78	.66	.55	.44	.32	.21	.10	.98	3.2	6.5	9.7	2.9	6.2
2 45	30.887	61.78	92.66	123.55	154.43	185.32	216.20	247.09	277.98	1853.2	3706.4	5559.6	7412.8	9266.1
46	.887	.77	.66	.55	.43	.32	.20	.09	.98	3.2	6.4	9.5	2.7	6.0
47	.886	.77	.66	.55	.43	.32	.20	.09	.97	3.2	6.3	9.5	2.6	5.9
48	.886	.77	.66	.54	.43	.31	.20	.09	.97	3.1	6.3	9.4	2.6	5.7
49	.885	.77	.66	.54	.42	.31	.19	.08	.96	3.1	6.2	9.4	2.5	5.6
2 50	30.885	61.77	92.65	123.54	154.42	185.31	216.19	247.08	277.96	1853.1	3706.2	5559.3	7412.4	9265.5
51	.884	.77	.65	.54	.42	.31	.19	.08	.96	3.1	6.1	9.2	2.3	5.3
52	.884	.77	.65	.54	.42	.31	.18	.07	.95	3.0	6.1	9.1	2.2	5.2
53	.883	.77	.65	.53	.41	.30	.18	.07	.95	3.0	6.0	9.1	2.0	5.0
54	.883	.77	.65	.53	.41	.30	.18	.06	.94	3.0	6.0	9.0	1.9	4.9
2 55	30.882	61.77	92.65	123.53	154.41	185.29	216.17	247.06	277.94	1852.9	3705.9	5558.9	7411.8	9264.7
56	.882	.76	.65	.53	.41	.29	.17	.06	.94	2.9	5.8	8.8	1.7	4.6
57	.882	.76	.64	.53	.41	.29	.17	.05	.93	2.9	5.8	8.7	1.6	4.5
58	.881	.76	.64	.52	.40	.29	.17	.05	.93	2.9	5.7	8.7	1.5	4.3
59	.881	.76	.64	.52	.40	.28	.16	.04	.92	2.8	5.7	8.6	1.4	4.2
2 60	30.880	61.76	92.64	123.52	154.40	185.28	216.16	247.04	277.92	1852.8	3705.6	5558.5	7411.3	9264.1

Lat.	Latitude 2° to 3°—Meridional arcs					Latitude 2°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 2°30'		Value of 1'	Continuous sums of minutes from latitude 2°00'	Longitude	X	Y	
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	
2 00	30. 714			1842. 81			0 1	1 854. 2	0. 0
1	4	1	30. 71	. 81	1	1 842. 8	2	3 708. 4	0. 0
2	4	2	61. 43	. 81	2	3 685. 6	3	5 562. 7	0. 1
3	4	3	92. 14	. 81	3	5 528. 4	4	7 416. 9	0. 2
4	4	4	122. 86	. 81	4	7 371. 2			
2 5	30. 714	5	153. 57	1842. 81	5	9 214. 1	0 5	9 271. 1	0. 2
6	4	6	184. 28	. 81	6	11 056. 9	6	11 125. 3	0. 3
7	4	7	215. 00	. 81	7	12 899. 7	7	12 979. 6	0. 5
8	4	8	245. 71	. 81	8	14 742. 5	8	14 833. 8	0. 6
9	4	9	276. 43	. 81	9	16 585. 3	9	16 688. 0	0. 8
2 10	30. 714	10	307. 14	1842. 81	10	18 428. 1	0 10	18 542. 2	0. 9
11	4	1	337. 85	. 81	1	20 270. 9	15	27 813. 3	2. 1
12	4	2	368. 57	. 81	2	22 113. 8	20	37 084. 4	3. 8
13	4	3	399. 28	. 81	3	23 956. 6	25	46 355. 6	5. 9
14	4	4	430. 00	. 81	4	25 799. 4	30	55 626. 7	8. 5
2 15	30. 714	15	460. 71	1842. 82	15	27 642. 2	0 35	64 897. 8	11. 5
16	4	6	491. 42	. 82	6	29 485. 0	40	74 168. 9	15. 0
17	4	7	522. 14	. 82	7	31 327. 8	45	83 440. 0	19. 0
18	4	8	552. 85	. 82	8	33 170. 7	50	92 711. 1	23. 5
19	4	9	583. 57	. 82	9	35 013. 5	55	101 982. 2	28. 4
2 20	30. 714	20	614. 28	1842. 82	20	36 856. 3	1 00	111 253. 4	33. 9
21	4	1	644. 99	. 82	1	38 699. 1	05	120 524. 5	39. 8
22	4	2	675. 71	. 82	2	40 541. 9	10	129 795. 6	46. 1
23	4	3	706. 42	. 82	3	42 384. 8	15	139 066. 7	52. 9
24	4	4	737. 14	. 82	4	44 227. 6	20	148 337. 8	60. 2
2 25	30. 714	25	767. 85	1842. 82	25	46 070. 4	1 25	157 608. 9	68. 0
26	4	6	798. 56	. 82	6	47 913. 2	30	166 880. 0	76. 2
27	4	7	829. 28	. 82	7	49 756. 0	35	176 151. 1	84. 9
28	4	8	859. 99	. 82	8	51 598. 9	40	185 422. 2	94. 1
29	4	9	890. 71	. 82	9	53 441. 7	45	194 693. 3	103. 8
2 30	30. 714	30	921. 41	1842. 82	30	55 284. 5	1 50	203 964. 5	113. 9
31	4	1	952. 13	. 82	1	57 127. 3	55	213 235. 6	124. 5
32	4	2	982. 85	. 82	2	58 970. 1	2 00	222 506	136
33	4	3	1 013. 56	. 82	3	60 813. 0	3 00	333 759	305
34	4	4	1 044. 28	. 82	4	62 655. 8	4 00	445 012	542
2 35	30. 714	35	1 074. 99	1842. 83	35	64 498. 6	5 00	556 266	847
36	4	6	1 105. 70	. 83	6	66 341. 5	6 00	667 517	1 220
37	4	7	1 136. 42	. 83	7	68 184. 3	7 00	778 770	1 660
38	4	8	1 167. 13	. 83	8	70 027. 1	8 00	890 023	2 169
39	4	9	1 197. 85	. 83	9	71 869. 9	9 00	1 001 275	2 745
2 40	30. 714	40	1 228. 56	1842. 83	40	73 712. 8	10 00	1 112 527	3 388
41	4	1	1 259. 27	. 83	1	75 555. 6	11 00	1 223 778	4 100
42	4	2	1 289. 99	. 83	2	77 398. 4	12 00	1 335 028	4 879
43	4	3	1 320. 70	. 83	3	79 241. 3	13 00	1 446 278	5 726
44	4	4	1 351. 42	. 83	4	81 084. 1	14 00	1 557 528	6 641
2 45	30. 714	45	1 382. 13	1842. 83	45	82 926. 9	15 00	1 668 778	7 624
46	4	6	1 412. 84	. 83	6	84 769. 8	16 00	1 780 027	8 674
47	4	7	1 443. 56	. 83	7	86 612. 6	17 00	1 891 275	9 792
48	4	8	1 474. 27	. 83	8	88 455. 4	18 00	2 002 522	10 978
49	4	9	1 504. 99	. 83	9	90 298. 2	19 00	2 113 768	12 232
2 50	30. 714	50	1 535. 70	1842. 83	50	92 141. 1	20 00	2 225 012	13 553
51	4	1	1 566. 41	. 83	1	93 983. 9	21 00	2 336 257	14 942
52	4	2	1 597. 13	. 84	2	95 826. 7	22 00	2 447 501	16 399
53	4	3	1 627. 84	. 84	3	97 669. 5	23 00	2 558 744	17 923
54	4	4	1 658. 56	. 84	4	99 512. 4	24 00	2 669 986	19 515
2 55	30. 714	55	1 689. 27	1842. 84	55	101 355. 2	25 00	2 781 227	21 176
56	4	6	1 719. 98	. 84	6	103 198. 0	26 00	2 892 466	22 904
57	4	7	1 750. 70	. 84	7	105 041. 9	27 00	3 003 705	24 700
58	4	8	1 781. 41	. 84	8	106 883. 7	28 00	3 114 943	26 563
59	4	9	1 812. 13	. 84	9	108 726. 5	29 00	3 226 179	28 494
2 60	30. 714	60	1 842. 82	1842. 84	60	110 569. 4	30 00	3 337 415	30 494

Latitude 3° to 4°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
3 00	30.880	61.76	92.64	123.52	154.40	185.28	216.16	247.04	277.92	1852.8	3705.6	5558.5	7411.3	9264.1
1	.880	.76	.64	.52	.40	.28	.16	.04	.92	2.8	5.5	8.4	1.2	4.0
2	.879	.76	.64	.52	.40	.28	.15	.03	.91	2.8	5.5	8.3	1.1	3.8
3	.879	.76	.64	.51	.39	.27	.15	.03	.91	2.7	5.4	8.2	0.9	3.7
4	.878	.76	.64	.51	.39	.27	.15	.02	.90	2.7	5.4	8.1	0.8	3.5
3 05	30.878	61.76	92.63	123.51	154.39	185.27	216.14	247.02	277.90	1852.7	3705.3	5558.0	7410.7	9263.4
6	.878	.75	.63	.51	.39	.27	.14	.02	.90	2.7	5.3	7.9	0.6	3.3
7	.877	.75	.63	.51	.39	.26	.14	.01	.89	2.6	5.2	7.8	0.5	3.1
8	.877	.75	.63	.50	.38	.26	.14	.01	.89	2.6	5.2	7.8	0.3	3.0
9	.876	.75	.63	.50	.38	.25	.13	.00	.88	2.5	5.1	7.7	0.2	2.8
3 10	30.876	61.75	92.63	123.50	154.38	185.25	216.13	247.00	277.88	1852.5	3705.1	5557.6	7410.1	9262.7
11	.875	.75	.63	.50	.38	.25	.13	7.00	.88	2.5	5.0	7.5	10.0	2.5
12	.875	.75	.62	.50	.37	.25	.12	6.99	.87	2.5	5.0	7.4	09.9	2.4
13	.874	.75	.62	.49	.37	.24	.12	.99	.87	2.4	4.9	7.4	9.7	2.2
14	.874	.75	.62	.49	.37	.24	.11	.98	.86	2.4	4.9	7.3	9.6	2.1
3 15	30.873	61.75	92.62	123.49	154.36	185.24	216.11	246.98	277.86	1852.4	3704.8	5557.2	7409.5	9261.9
16	.872	.74	.62	.49	.36	.23	.11	.98	.85	2.3	4.7	7.1	9.4	1.7
17	.872	.74	.62	.49	.36	.23	.10	.97	.85	2.3	4.7	7.0	9.3	1.6
18	.871	.74	.61	.48	.36	.23	.10	.97	.84	2.3	4.6	6.9	9.1	1.4
19	.871	.74	.61	.48	.35	.22	.09	.96	.84	2.2	4.6	6.8	9.0	1.3
3 20	30.870	61.74	92.61	123.48	154.35	185.22	216.09	246.96	277.83	1852.2	3704.5	5556.7	7408.9	9261.1
21	.870	.74	.61	.48	.35	.22	.09	.96	.83	2.2	4.4	6.6	8.8	1.0
22	.869	.74	.61	.48	.35	.22	.08	.95	.82	2.2	4.3	6.5	8.7	0.8
23	.869	.74	.61	.47	.34	.21	.08	.95	.82	2.1	4.3	6.4	8.5	0.7
24	.868	.74	.61	.47	.34	.21	.08	.94	.81	2.1	4.2	6.3	8.4	0.5
3 25	30.868	61.74	92.60	123.47	154.34	185.21	216.07	246.94	277.81	1852.1	3704.1	5556.2	7408.3	9260.4
26	.867	.73	.60	.47	.34	.20	.07	.94	.81	2.1	4.0	6.1	8.2	0.2
27	.867	.73	.60	.47	.34	.20	.07	.93	.80	2.0	4.0	6.0	8.0	60.0
28	.866	.73	.60	.46	.33	.20	.07	.93	.80	2.0	3.9	5.9	7.9	59.9
29	.866	.73	.60	.46	.33	.19	.06	.92	.79	1.9	3.9	5.8	7.7	9.7
3 30	30.865	61.73	92.60	123.46	154.33	185.19	216.06	246.92	277.79	1851.9	3703.8	5555.7	7407.6	9259.5
31	.864	.73	.59	.46	.33	.19	.06	.92	.79	1.9	3.7	5.6	7.5	9.3
32	.864	.73	.59	.46	.32	.18	.05	.91	.78	1.8	3.7	5.5	7.4	9.2
33	.863	.73	.59	.45	.32	.18	.05	.91	.78	1.8	3.6	5.4	7.2	9.0
34	.863	.73	.59	.45	.32	.18	.04	.90	.77	1.7	3.6	5.3	7.1	8.9
3 35	30.862	61.73	92.59	123.45	154.31	185.17	216.04	246.90	277.77	1851.7	3703.5	5555.2	7407.0	9258.7
36	.862	.72	.59	.45	.31	.17	.04	.90	.76	1.7	3.4	5.1	6.9	8.5
37	.861	.72	.58	.45	.31	.17	.03	.89	.76	1.7	3.3	5.0	6.7	8.4
38	.861	.72	.58	.44	.31	.17	.03	.89	.75	1.6	3.3	4.9	6.6	8.2
39	.860	.72	.58	.44	.30	.16	.02	.88	.75	1.6	3.2	4.8	6.4	8.1
3 40	30.860	61.72	92.58	123.44	154.30	185.16	216.02	246.88	277.74	1851.6	3703.1	5554.7	7406.3	9257.9
41	.859	.72	.58	.44	.30	.16	.02	.88	.73	1.6	3.0	4.6	6.2	7.7
42	.858	.72	.58	.43	.29	.15	.01	.87	.73	1.5	3.0	4.5	6.0	7.5
43	.858	.71	.57	.43	.29	.15	.01	.87	.72	1.5	2.9	4.4	5.9	7.4
44	.857	.71	.57	.43	.29	.14	.00	.86	.72	1.4	2.9	4.3	5.7	7.2
3 45	30.857	61.71	92.57	123.42	154.28	185.14	216.00	246.86	277.71	1851.4	3702.8	5554.2	7405.6	9257.0
46	.856	.71	.57	.42	.28	.14	6.00	.85	.70	1.4	2.7	4.1	5.5	6.8
47	.855	.71	.57	.42	.28	.13	5.99	.85	.70	1.3	2.6	4.0	5.3	6.6
48	.855	.70	.57	.42	.28	.13	.99	.84	.69	1.3	2.6	3.9	5.1	6.5
49	.854	.70	.56	.41	.27	.12	.98	.84	.69	1.2	2.5	3.8	5.0	6.3
3 50	30.854	61.70	92.56	123.41	154.27	185.12	215.98	246.83	277.68	1851.2	3702.4	5553.7	7404.9	9256.1
51	.853	.70	.56	.41	.27	.12	.98	.83	.68	1.2	2.3	3.6	4.8	5.9
52	.852	.70	.56	.41	.26	.11	.97	.82	.67	1.1	2.3	3.5	4.6	5.7
53	.852	.70	.56	.40	.26	.11	.97	.82	.67	1.1	2.2	3.3	4.5	5.6
54	.851	.70	.55	.40	.26	.11	.96	.81	.66	1.0	2.2	3.2	4.3	5.4
3 55	30.851	61.70	92.55	123.40	154.25	185.10	215.96	246.81	277.66	1851.0	3702.1	5553.1	7404.2	9255.2
56	.850	.70	.55	.40	.25	.10	.95	.80	.65	1.0	2.0	3.0	4.0	5.0
57	.849	.70	.55	.40	.25	.10	.95	.80	.65	1.0	1.9	2.9	3.9	4.8
58	.849	.70	.55	.39	.25	.10	.94	.79	.64	0.9	1.9	2.8	3.7	4.7
59	.848	.70	.54	.39	.24	.09	.94	.79	.64	0.9	1.8	2.7	3.6	4.5
3 60	30.848	61.70	92.54	123.39	154.24	185.09	215.93	246.78	277.63	1850.9	3701.7	5552.6	7403.4	9254.3

TERRESTRIAL ARCS

Lat.	Latitude 3° to 4°—Meridional arcs					Latitude 3°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 3°30'		Value of 1'	Continuous sums of minutes from latitude 3°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
3 00	30.714			1842.84			0 1	1 852.8	0.0
1	4	1	30.71	.84	1	1 842.8	0 2	3 705.6	0.1
2	4	2	61.43	.84	2	3 685.7	0 3	5 558.4	0.1
3	4	3	92.14	.84	3	5 528.5	0 4	7 411.3	0.2
4	4	4	122.86	.84	4	7 371.4			
3 05	30.714	5	153.57	1842.84	5	9 214.2	0 5	9 264.1	0.4
6	4	6	184.29	.84	6	11 057.0	0 6	11 116.9	0.5
7	4	7	215.00	.84	7	12 899.9	0 7	12 969.7	0.7
8	4	8	245.71	.84	8	14 742.7	0 8	14 822.5	0.9
9	4	9	276.43	.84	9	16 585.6	0 9	16 675.3	1.1
3 10	30.714	10	307.14	1842.84	10	18 428.4	0 10	18 528.1	1.4
11	4	1	337.86	.85	1	20 271.3	0 15	27 792.3	3.2
12	4	2	368.57	.85	2	22 114.1	0 20	37 056.4	5.6
13	4	3	399.29	.85	3	23 957.0	0 25	46 320.5	8.8
14	4	4	430.00	.85	4	25 799.8	0 30	55 584.6	12.7
3 15	30.714	15	460.71	1842.85	15	27 642.7	0 35	64 848.7	17.3
16	4	6	491.43	.85	6	29 485.5	0 40	74 112.8	22.6
17	4	7	522.14	.85	7	31 328.4	0 45	83 376.9	28.6
18	4	8	552.86	.85	8	33 171.2	0 50	92 641.1	35.3
19	4	9	583.57	.85	9	35 014.1	0 55	101 905.2	42.7
3 20	30.714	20	614.29	1842.85	20	36 856.9	1 00	111 169.3	50.8
21	4	1	645.00	.85	1	38 699.8	1 05	120 433.3	59.6
22	4	2	675.71	.85	2	40 542.6	1 10	129 697.4	69.1
23	4	3	706.43	.85	3	42 385.5	1 15	138 961.5	79.3
24	4	4	737.14	.85	4	44 228.3	1 20	148 225.7	90.3
3 25	30.714	25	767.86	1842.85	25	46 071.2	1 25	157 489.8	101.9
26	4	6	798.57	.85	6	47 914.0	1 30	166 753.9	114.2
27	4	7	829.29	.85	7	49 756.9	1 35	176 018.0	127.3
28	4	8	860.00	.86	8	51 599.7	1 40	185 282.0	141.0
29	4	9	890.71	.86	9	53 442.6	1 45	194 546.1	155.5
3 30	30.714	30	921.43	1842.86	30	55 285.5	1 50	203 810.1	170.7
31	4	1	952.14	.86	1	57 128.3	1 55	213 074.1	186.5
32	4	2	982.86	.86	2	58 971.2	2 00	222 338	203
33	4	3	1 013.57	.86	3	60 814.0	2 05	231 602	220
34	4	4	1 044.29	.86	4	62 656.9	2 10	240 866	237
3 35	30.714	35	1 075.00	1842.86	35	64 499.8	2 15	250 130	254
36	4	6	1 105.71	.86	6	66 342.6	2 20	259 394	271
37	4	7	1 136.43	.86	7	68 185.5	2 25	268 658	288
38	4	8	1 167.14	.86	8	70 028.3	2 30	277 922	305
39	4	9	1 197.86	.86	9	71 871.2	2 35	287 186	322
3 40	30.714	40	1 228.57	1842.86	40	73 714.1	2 40	296 450	339
41	4	1	1 259.29	.86	1	75 556.9	2 45	305 714	356
42	4	2	1 290.00	.86	2	77 399.8	2 50	314 978	373
43	4	3	1 320.71	.87	3	79 242.7	2 55	324 242	390
44	4	4	1 351.43	.87	4	81 085.5	3 00	333 506	407
3 45	30.714	45	1 382.14	1842.87	45	82 928.4	3 05	342 770	424
46	4	6	1 412.86	.87	6	84 771.3	3 10	352 034	441
47	4	7	1 443.57	.87	7	86 614.1	3 15	361 298	458
48	4	8	1 474.29	.87	8	88 457.0	3 20	370 562	475
49	4	9	1 505.00	.87	9	90 299.9	3 25	379 826	492
3 50	30.715	50	1 535.71	1842.87	50	92 142.7	3 30	389 090	509
51	5	1	1 566.43	.87	1	93 985.6	3 35	398 354	526
52	5	2	1 597.14	.87	2	95 828.4	3 40	407 618	543
53	5	3	1 627.86	.87	3	97 671.3	3 45	416 882	560
54	5	4	1 658.57	.87	4	99 514.2	3 50	426 146	577
3 55	30.715	55	1 689.29	1842.87	55	101 357.0	3 55	435 410	594
56	5	6	1 720.00	.87	6	103 199.9	4 00	444 674	611
57	5	7	1 750.71	.88	7	105 042.8	4 05	453 938	628
58	5	8	1 781.43	.88	8	106 885.7	4 10	463 202	645
59	5	9	1 812.14	.88	9	108 728.5	4 15	472 466	662
3 60	30.715	60	1 842.86	1842.88	60	110 571.4	4 20	481 730	679

Latitude 4° to 5°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
4 00	30.848	61.70	92.54	123.39	154.24	185.09	215.93	246.78	277.63	1850.9	3701.7	5552.6	7403.4	9254.3
1	.847	.70	.54	.39	.24	.09	.93	.78	.62	0.9	1.6	2.5	3.3	4.1
2	.846	.70	.54	.39	.23	.08	.92	.77	.62	0.8	1.6	2.4	3.1	3.9
3	.846	.69	.54	.38	.23	.08	.92	.77	.61	0.8	1.5	2.2	3.0	3.8
4	.845	.69	.54	.38	.23	.07	.91	.76	.61	0.7	1.4	2.1	2.8	3.6
4 05	30.845	61.69	92.53	123.38	154.22	185.07	215.91	246.76	277.60	1850.7	3701.4	5552.0	7402.7	9253.4
6	.844	.69	.53	.38	.22	.07	.91	.75	.59	0.7	1.3	1.9	2.5	3.2
7	.843	.69	.53	.38	.22	.06	.90	.75	.59	0.6	1.2	1.8	2.4	3.0
8	.843	.68	.53	.37	.22	.06	.90	.74	.58	0.6	1.1	1.6	2.2	2.8
9	.842	.68	.53	.37	.21	.05	.89	.74	.58	0.5	1.1	1.5	2.1	2.6
4 10	30.841	61.68	92.52	123.37	154.21	185.05	215.89	246.73	277.57	1850.5	3701.0	5551.4	7401.9	9252.4
11	.841	.68	.52	.37	.21	.05	.89	.73	.56	0.5	0.9	1.3	1.8	2.2
12	.840	.68	.52	.36	.20	.04	.88	.72	.56	0.4	0.8	1.2	1.6	2.0
13	.839	.68	.52	.36	.20	.04	.88	.72	.55	0.4	0.8	1.0	1.5	1.8
14	.839	.68	.52	.36	.19	.03	.87	.71	.55	0.3	0.7	0.9	1.3	1.6
4 15	30.838	61.68	92.51	123.35	154.19	185.03	215.87	246.71	277.54	1850.3	3700.6	5550.9	7401.2	9251.4
16	.837	.67	.51	.35	.19	.03	.86	.70	.53	0.3	0.5	0.7	1.0	1.2
17	.837	.67	.51	.35	.18	.02	.86	.70	.53	0.2	0.4	0.6	0.8	1.0
18	.836	.67	.51	.35	.18	.02	.85	.69	.52	0.2	0.4	0.4	0.7	0.8
19	.835	.67	.51	.34	.17	.01	.85	.69	.52	0.1	0.3	0.3	0.5	0.6
4 20	30.835	61.67	92.50	123.34	154.17	185.01	215.84	246.68	277.51	1850.1	3700.2	5550.2	7400.3	9250.4
21	.834	.67	.50	.34	.17	.01	.84	.67	.50	0.1	0.1	0.1	0.1	0.2
22	.833	.67	.50	.33	.16	.00	.83	.67	.50	0.0	700.0	50.0	400.0	50.0
23	.833	.67	.50	.33	.16	5.00	.83	.66	.49	50.0	699.9	49.8	399.8	49.8
24	.832	.67	.50	.33	.16	4.99	.82	.66	.49	49.9	699.8	49.7	399.7	49.6
4 25	30.831	61.67	92.49	123.32	154.15	184.99	215.82	246.65	277.48	1849.9	3699.8	5549.6	7399.5	9249.4
26	.831	.66	.49	.32	.15	.99	.81	.64	.47	9.9	9.7	9.5	9.3	9.2
27	.830	.66	.49	.32	.15	.98	.81	.64	.47	9.8	9.6	9.4	9.2	9.0
28	.829	.66	.49	.32	.15	.98	.80	.63	.46	9.8	9.5	9.2	9.0	8.7
29	.828	.66	.49	.31	.14	.97	.80	.63	.46	9.7	9.4	9.1	8.9	8.5
4 30	30.828	61.66	92.48	123.31	154.14	184.97	215.79	246.62	277.45	1849.7	3699.3	5549.0	7398.7	9248.3
31	.827	.66	.48	.31	.14	.97	.79	.61	.44	9.7	9.2	8.9	8.5	8.1
32	.826	.66	.48	.30	.13	.96	.78	.61	.44	9.6	9.1	8.8	8.3	7.9
33	.826	.65	.48	.30	.13	.96	.78	.60	.43	9.6	9.1	8.6	8.2	7.7
34	.825	.65	.48	.30	.12	.95	.77	.60	.42	9.5	9.0	8.5	8.0	7.5
4 35	30.824	61.65	92.47	123.29	154.12	184.95	215.77	246.59	277.41	1849.5	3698.9	5548.4	7397.8	9247.3
36	.824	.65	.47	.29	.12	.94	.76	.58	.41	9.4	8.8	8.3	7.6	7.1
37	.823	.65	.47	.29	.11	.94	.76	.58	.40	9.4	8.7	8.1	7.4	6.9
38	.822	.64	.47	.29	.11	.93	.75	.57	.39	9.3	8.7	8.0	7.3	6.6
39	.821	.64	.46	.28	.10	.93	.75	.57	.38	9.3	8.6	7.8	7.1	6.4
4 40	30.821	61.64	92.46	123.28	154.10	184.92	215.74	246.56	277.38	1849.2	3698.5	5547.7	7396.9	9246.2
41	.820	.64	.46	.28	.10	.92	.74	.56	.37	9.2	8.4	7.6	6.7	6.0
42	.819	.64	.46	.27	.09	.91	.73	.55	.37	9.1	8.3	7.5	6.6	5.8
43	.818	.64	.46	.27	.09	.91	.73	.55	.36	9.1	8.2	7.3	6.4	5.5
44	.818	.64	.45	.27	.09	.90	.72	.54	.36	9.0	8.1	7.2	6.3	5.3
4 45	30.817	61.64	92.45	123.26	154.08	184.90	215.72	246.54	277.35	1849.0	3698.0	5547.1	7396.1	9245.1
46	.816	.63	.45	.26	.08	.90	.71	.53	.34	9.0	8.0	7.0	5.9	4.9
47	.816	.63	.45	.26	.08	.89	.71	.53	.34	8.9	7.9	6.8	5.7	4.7
48	.815	.63	.44	.26	.08	.89	.70	.52	.33	8.9	7.8	6.7	5.6	4.4
49	.814	.63	.44	.25	.07	.88	.70	.52	.33	8.8	7.7	6.5	5.4	4.2
4 50	30.813	61.63	92.44	123.25	154.07	184.88	215.69	246.51	277.32	1848.8	3697.6	5546.4	7395.2	9244.0
51	.813	.63	.44	.25	.07	.88	.69	.50	.31	8.8	7.5	6.3	5.0	3.8
52	.812	.63	.44	.24	.06	.87	.68	.50	.31	8.7	7.4	6.1	4.8	3.5
53	.811	.62	.43	.24	.06	.87	.68	.49	.30	8.7	7.3	6.0	4.7	3.3
54	.810	.62	.43	.24	.05	.86	.67	.48	.29	8.6	7.2	5.8	4.5	3.0
4 55	30.809	61.62	92.43	123.23	154.05	184.86	215.67	246.47	277.28	1848.6	3697.1	5545.7	7394.3	9242.8
56	.809	.62	.43	.23	.05	.85	.66	.47	.28	8.5	7.1	5.6	4.1	2.6
57	.808	.62	.42	.23	.04	.85	.66	.46	.27	8.5	7.0	5.4	3.9	2.4
58	.807	.61	.42	.23	.04	.84	.65	.45	.26	8.4	6.9	5.3	3.7	2.1
59	.806	.61	.42	.22	.03	.84	.65	.45	.26	8.4	6.8	5.1	3.5	1.9
4 60	30.806	61.61	92.42	123.22	154.03	184.83	215.64	246.44	277.25	1848.3	3696.7	5545.0	7393.3	9241.7

Lat.	Latitude 4° to 5°—Meridional arcs					Latitude 4°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 4°30'		Value of 1'	Continuous sums of minutes from latitude 4°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
4 00	30.715			1842.88			0 1	1 850.9	0.0
1	5	1	30.72	.88	1	1 842.9	0 2	3 701.7	0.1
2	5	2	61.43	.88	2	3 685.8	0 3	5 552.6	0.2
3	5	3	92.15	.88	3	5 528.6	0 4	7 403.4	0.3
4	5	4	122.86	.88	4	7 371.5			
4 05	30.715	5	153.58	1842.88	5	9 214.4	0 5	9 254.3	0.5
6	5	6	184.29	.88	6	11 057.3	0 6	11 105.1	0.7
7	5	7	215.01	.88	7	12 900.2	0 7	12 956.0	0.9
8	5	8	245.72	.89	8	14 743.1	0 8	14 806.9	1.2
9	5	9	276.44	.89	9	16 585.9	0 9	16 657.7	1.5
4 10	30.715	10	307.15	1842.89	10	18 428.8	0 10	18 508.6	1.9
11	5	1	337.87	.89	1	20 271.7	0 15	27 762.8	4.2
12	5	2	368.58	.89	2	22 114.6	0 20	37 017.1	7.5
13	5	3	399.30	.89	3	23 957.5	0 25	46 271.4	11.7
14	5	4	430.01	.89	4	25 800.4	0 30	55 525.7	16.9
4 15	30.715	15	460.73	1842.89	15	27 643.3	0 35	64 780.0	23.0
16	5	6	491.44	.89	6	29 486.2	0 40	74 034.3	30.0
17	5	7	522.16	.89	7	31 329.0	0 45	83 288.5	38.0
18	5	8	552.87	.89	8	33 171.9	0 50	92 542.8	46.9
19	5	9	583.59	.89	9	35 014.8	0 55	101 797.1	56.8
4 20	30.715	20	614.30	1842.89	20	36 857.7	1 00	111 051.4	67.6
21	5	1	645.02	.90	1	38 700.6	1 05	120 305.7	79.3
22	5	2	675.73	.90	2	40 543.5	1 10	129 559.9	92.0
23	5	3	706.45	.90	3	42 386.4	1 15	138 814.2	105.6
24	5	4	737.16	.90	4	44 229.3	1 20	148 068.5	120.2
4 25	30.715	25	767.88	1842.90	25	46 072.2	1 25	157 322.7	135.7
26	5	6	798.59	.90	6	47 915.1	1 30	166 577.0	152.1
27	5	7	829.31	.90	7	49 758.0	1 35	175 831.3	169.5
28	5	8	860.02	.90	8	51 600.9	1 40	185 085.5	187.8
29	5	9	890.74	.90	9	53 443.8	1 45	194 339.8	207.0
4 30	30.715	30	921.45	1842.90	30	55 286.7	1 50	203 594.0	227.2
31	5	1	952.17	.90	1	57 129.6	1 55	212 848.3	248.3
32	5	2	982.88	.90	2	58 972.5	2 00	222 102	270
33	5	3	1 013.60	.90	3	60 815.4	2 05	231 356	291
34	5	4	1 044.31	.90	4	62 658.3	2 10	240 610	312
4 35	30.715	35	1 075.03	1842.91	35	64 501.2	2 15	250 864	333
36	5	6	1 105.74	.91	6	66 344.1	2 20	260 118	354
37	5	7	1 136.46	.91	7	68 187.0	2 25	270 372	375
38	5	8	1 167.17	.91	8	70 029.9	2 30	280 626	396
39	5	9	1 197.89	.91	9	71 872.9	2 35	290 880	417
4 40	30.715	40	1 228.60	1842.91	40	73 715.8	2 40	301 134	438
41	5	1	1 259.32	.91	1	75 558.7	2 45	311 388	459
42	5	2	1 290.03	.91	2	77 401.6	2 50	321 642	480
43	5	3	1 320.75	.91	3	79 244.5	2 55	331 896	501
44	5	4	1 351.46	.91	4	81 087.4	3 00	342 150	522
4 45	30.715	45	1 382.18	1842.91	45	82 930.3	3 05	352 404	543
46	5	6	1 412.89	.92	6	84 773.2	3 10	362 658	564
47	5	7	1 443.61	.92	7	86 616.2	3 15	372 912	585
48	5	8	1 474.32	.92	8	88 459.1	3 20	383 166	606
49	5	9	1 505.04	.92	9	90 302.0	3 25	393 420	627
4 50	30.715	50	1 535.75	1842.92	50	92 144.9	3 30	403 674	648
51	5	1	1 566.47	.92	1	93 987.8	3 35	413 928	669
52	5	2	1 597.18	.92	2	95 830.8	3 40	424 182	690
53	5	3	1 627.90	.92	3	97 673.7	3 45	434 436	711
54	5	4	1 658.61	.92	4	99 516.6	3 50	444 690	732
4 55	30.715	55	1 689.33	1842.92	55	101 359.5	3 55	454 944	753
56	5	6	1 720.04	.93	6	103 202.4	4 00	465 198	774
57	5	7	1 750.76	.93	7	105 045.4	4 05	475 452	795
58	5	8	1 781.47	.93	8	106 888.3	4 10	485 706	816
59	5	9	1 812.19	.93	9	108 731.2	4 15	495 960	837
4 60	30.715	60	1 842.90	1842.93	60	110 574.1	4 20	506 214	858

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 5° to 6°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
5 00	30.806	61.61	92.42	123.22	154.03	184.83	215.64	246.44	277.25	1848.3	3696.7	5545.0	7393.3	9241.7
1	.805	.61	.42	.22	.03	.83	.63	.43	.24	8.3	6.6	4.9	3.1	1.5
2	.804	.61	.41	.21	.02	.82	.63	.43	.24	8.2	6.5	4.7	2.9	1.2
3	.803	.61	.41	.21	.02	.82	.62	.42	.23	8.2	6.4	4.6	2.8	1.0
4	.802	.61	.41	.21	.01	.81	.62	.42	.22	8.1	6.3	4.4	2.6	0.7
5 05	30.802	61.61	92.40	123.20	154.01	184.81	215.61	246.41	277.21	1848.1	3696.2	5544.3	7392.4	9240.5
6	.801	.60	.40	.20	.01	.81	.60	.40	.21	8.1	6.1	4.2	2.2	0.3
7	.800	.60	.40	.20	.00	.80	.60	.40	.20	8.0	6.0	4.0	2.0	40.0
8	.799	.60	.40	.20	4.00	.80	.59	.39	.19	8.0	5.9	3.9	1.8	39.8
9	.798	.60	.39	.19	3.99	.79	.59	.39	.19	7.9	5.8	3.7	1.6	9.5
5 10	30.798	61.60	92.39	123.19	153.99	184.79	215.58	246.38	277.18	1847.9	3695.7	5543.6	7391.4	9239.3
11	.797	.60	.39	.19	.99	.78	.58	.37	.17	7.8	5.6	3.4	1.2	9.0
12	.796	.60	.39	.18	.98	.78	.57	.37	.16	7.8	5.5	3.3	1.0	8.8
13	.795	.59	.38	.18	.98	.77	.57	.36	.16	7.7	5.4	3.1	0.9	8.5
14	.794	.59	.38	.18	.97	.77	.56	.36	.15	7.7	5.3	3.0	0.7	8.3
5 15	30.793	61.59	92.38	123.17	153.97	184.76	215.56	246.35	277.14	1847.6	3695.2	5542.8	7390.5	9238.0
16	.793	.59	.38	.17	.97	.76	.55	.34	.13	7.6	5.1	2.7	0.3	7.8
17	.792	.59	.38	.17	.96	.75	.55	.34	.12	7.5	5.0	2.5	90.1	7.5
18	.791	.58	.37	.17	.96	.75	.54	.33	.12	7.5	4.9	2.4	89.9	7.3
19	.790	.58	.37	.16	.95	.74	.54	.33	.11	7.4	4.8	2.2	9.7	7.0
5 20	30.789	61.58	92.37	123.16	153.95	184.74	215.53	246.32	277.10	1847.4	3694.7	5542.1	7389.5	9236.8
21	.788	.58	.37	.16	.95	.73	.52	.31	.09	7.3	4.6	1.9	9.3	6.5
22	.788	.58	.36	.15	.94	.73	.52	.31	.09	7.3	4.5	1.8	9.1	6.3
23	.787	.57	.36	.15	.94	.72	.51	.30	.08	7.2	4.4	1.6	8.8	6.0
24	.786	.57	.36	.14	.93	.72	.51	.29	.07	7.2	4.3	1.5	8.6	5.8
5 25	30.785	61.57	92.35	123.14	153.93	184.71	215.50	246.28	277.06	1847.1	3694.2	5541.3	7388.4	9235.5
26	.784	.57	.35	.14	.92	.71	.49	.28	.06	7.1	4.1	1.2	8.2	5.3
27	.783	.57	.35	.13	.92	.70	.49	.27	.05	7.0	4.0	1.0	8.0	5.0
28	.783	.56	.35	.13	.91	.70	.48	.26	.04	7.0	3.9	0.9	7.8	4.8
29	.782	.56	.34	.12	.91	.69	.48	.26	.04	6.9	3.8	0.7	7.6	4.5
5 30	30.781	61.56	92.34	123.12	153.90	184.69	215.47	246.25	277.03	1846.9	3693.7	5540.6	7387.4	9234.3
31	.780	.56	.34	.12	.90	.68	.46	.24	.02	6.8	3.6	0.4	7.2	4.0
32	.779	.56	.34	.11	.89	.67	.46	.24	.01	6.7	3.5	0.3	7.0	3.8
33	.778	.55	.33	.11	.89	.67	.45	.23	.01	6.7	3.4	0.1	6.8	3.5
34	.778	.55	.33	.11	.88	.67	.45	.22	7.00	6.7	3.3	40.0	6.6	3.3
5 35	30.777	61.55	92.33	123.10	153.88	184.66	215.44	246.21	276.99	1846.6	3693.2	5539.8	7386.4	9233.0
36	.776	.55	.33	.10	.88	.65	.43	.21	.98	6.5	3.1	9.6	6.2	2.7
37	.775	.55	.33	.10	.87	.65	.43	.20	.97	6.5	3.0	9.5	6.0	2.5
38	.774	.54	.32	.10	.87	.64	.42	.19	.97	6.4	2.9	9.3	5.8	2.2
39	.773	.54	.32	.09	.86	.64	.42	.19	.96	6.4	2.8	9.2	5.6	2.0
5 40	30.772	61.54	92.32	123.09	153.86	184.63	215.41	246.18	276.95	1846.3	3692.7	5539.0	7385.4	9231.7
41	.771	.54	.31	.09	.86	.63	.40	.17	.94	6.3	2.6	8.8	5.2	1.4
42	.770	.54	.31	.08	.85	.62	.40	.17	.93	6.2	2.5	8.7	5.0	1.1
43	.770	.54	.31	.08	.85	.62	.39	.16	.93	6.2	2.3	8.5	4.7	0.9
44	.769	.54	.31	.07	.84	.61	.38	.15	.92	6.1	2.2	8.4	4.5	0.6
5 45	30.768	61.54	92.30	123.07	153.84	184.61	215.37	246.14	276.91	1846.1	3692.1	5538.2	7384.3	9230.3
46	.767	.53	.30	.07	.84	.60	.37	.14	.90	6.0	2.0	8.0	4.1	30.0
47	.766	.53	.30	.06	.83	.60	.36	.13	.89	6.0	1.9	7.9	3.9	29.8
48	.765	.53	.30	.06	.83	.59	.35	.12	.89	5.9	1.8	7.7	3.7	9.5
49	.764	.53	.29	.05	.82	.59	.35	.12	.88	5.9	1.7	7.6	3.5	9.3
5 50	30.763	61.53	92.29	123.05	153.82	184.58	215.34	246.11	276.87	1845.8	3691.6	5537.4	7383.2	9229.0
51	.762	.53	.29	.05	.82	.57	.33	.10	.86	5.7	1.5	7.2	3.0	8.7
52	.761	.53	.28	.04	.81	.57	.33	.09	.85	5.7	1.4	7.0	2.8	8.4
53	.761	.52	.28	.04	.81	.56	.32	.09	.85	5.6	1.2	6.9	2.5	8.2
54	.760	.52	.28	.04	.80	.56	.32	.08	.84	5.6	1.1	6.7	2.3	7.9
5 55	30.759	61.52	92.27	123.03	153.80	184.55	215.31	246.07	276.83	1845.5	3691.0	5536.5	7382.1	9227.6
56	.758	.52	.27	.03	.79	.54	.30	.06	.82	5.4	0.9	6.3	1.9	7.3
57	.757	.52	.27	.03	.79	.54	.30	.05	.81	5.4	0.8	6.2	1.7	7.0
58	.756	.51	.27	.03	.78	.53	.29	.05	.81	5.3	0.7	6.0	1.4	6.8
59	.755	.51	.26	.02	.78	.53	.29	.04	.80	5.3	0.6	5.9	1.2	6.5
5 60	30.754	61.51	92.26	123.02	153.77	184.52	215.28	246.03	276.79	1845.2	3690.5	5535.7	7381.0	9226.2

Lat.	Latitude 5° to 6°—Meridional arcs					Latitude 5°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 5°30'		Value of 1'	Continuous sums of minutes from latitude 5°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
5 00	30. 715			1842. 93			0 1	1 848. 3	0. 0
1	5	1	30. 72	. 93	1	1 842. 9	0 2	3 696. 7	0. 1
2	6	2	61. 43	. 93	2	3 685. 9	0 3	5 545. 0	0. 2
3	6	3	92. 15	. 93	3	5 528. 8	0 4	7 393. 3	0. 4
4	6	4	122. 86	. 93	4	7 371. 7			
5 05	30. 716	5	153. 58	1842. 93	5	9 214. 7	0 5	9 241. 7	0. 6
6	6	6	184. 30	. 93	6	11 057. 6	0 6	11 090. 0	0. 8
7	6	7	215. 01	. 94	7	12 900. 5	0 7	12 938. 3	1. 1
8	6	8	245. 73	. 94	8	14 743. 5	0 8	14 786. 7	1. 5
9	6	9	276. 44	. 94	9	16 586. 4	0 9	16 635. 0	1. 9
5 10	30. 716	10	307. 16	1842. 94	10	18 429. 3	0 10	18 483. 3	2. 3
11	6	1	337. 88	. 94	1	20 272. 3	0 15	27 725. 0	5. 3
12	6	2	368. 59	. 94	2	22 115. 2	0 20	36 966. 6	9. 4
13	6	3	399. 31	. 94	3	23 958. 2	0 25	46 208. 3	14. 6
14	6	4	430. 02	. 94	4	25 801. 1	0 30	55 449. 9	21. 1
5 15	30. 716	15	460. 74	1842. 94	15	27 644. 1	0 35	64 691. 6	28. 7
16	6	6	491. 46	. 94	6	29 487. 0	0 40	73 933. 3	37. 5
17	6	7	522. 17	. 95	7	31 329. 9	0 45	83 174. 9	47. 4
18	6	8	552. 89	. 95	8	33 172. 9	0 50	92 416. 6	58. 6
19	6	9	583. 60	. 95	9	35 015. 8	0 55	101 658. 2	70. 9
5 20	30. 716	20	614. 32	1842. 95	20	36 858. 8	1 00	110 899. 9	84. 4
21	6	1	645. 04	. 95	1	38 701. 7	1 05	120 141. 5	99. 0
22	6	2	675. 75	. 95	2	40 544. 7	1 10	129 383. 2	114. 8
23	6	3	706. 47	. 95	3	42 387. 6	1 15	138 624. 8	131. 8
24	6	4	737. 18	. 95	4	44 230. 6	1 20	147 866. 4	150. 0
5 25	30. 716	25	767. 90	1842. 95	25	46 073. 5	1 25	157 108. 0	169. 3
26	6	6	798. 62	. 95	6	47 916. 5	1 30	166 349. 7	189. 8
27	6	7	829. 33	. 96	7	49 759. 5	1 35	175 591. 3	211. 5
28	6	8	860. 05	. 96	8	51 602. 4	1 40	184 832. 9	234. 3
29	6	9	890. 76	. 96	9	53 445. 4	1 45	194 074. 5	258. 3
5 30	30. 716	30	921. 48	1842. 96	30	55 288. 3	1 50	203 316. 2	283. 5
31	6	1	952. 20	. 96	1	57 131. 3	1 55	212 557. 8	309. 9
32	6	2	982. 91	. 96	2	58 974. 3	2 00	221 799	337
33	6	3	1 013. 63	. 96	3	60 817. 2	2 05	332 699	759
34	6	4	1 044. 34	. 96	4	62 660. 2	2 10	443 597	1 349
5 35	30. 716	35	1 075. 06	1842. 96	35	64 503. 1	5 00	554 494	2 108
36	6	6	1 105. 78	. 97	6	66 346. 1	6 00	665 390	3 036
37	6	7	1 136. 49	. 97	7	68 189. 1	7 00	776 284	4 133
38	6	8	1 167. 21	. 97	8	70 032. 0	8 00	887 177	5 398
39	6	9	1 197. 92	. 97	9	71 875. 0	9 00	998 068	6 832
5 40	30. 716	40	1 228. 64	1842. 97	40	73 718. 0	10 00	1 108 956	8 435
41	6	1	1 259. 36	. 97	1	75 560. 9	11 00	1 219 842	10 206
42	6	2	1 290. 07	. 97	2	77 403. 9	12 00	1 330 725	12 146
43	6	3	1 320. 79	. 97	3	79 246. 9	13 00	1 441 604	14 255
44	6	4	1 351. 50	. 97	4	81 089. 9	14 00	1 552 481	16 532
5 45	30. 716	45	1 382. 22	1842. 97	45	82 932. 9	15 00	1 663 354	18 977
46	6	6	1 412. 94	. 98	6	84 775. 8	16 00	1 774 223	21 592
47	6	7	1 443. 65	. 98	7	86 618. 8	17 00	1 885 088	24 376
48	6	8	1 474. 37	. 98	8	88 461. 8	18 00	1 995 948	27 328
49	6	9	1 505. 08	. 98	9	90 304. 8	19 00	2 106 804	30 448
5 50	30. 716	50	1 535. 80	1842. 98	50	92 147. 7	20 00	2 217 655	33 737
51	6	1	1 566. 52	. 98	1	93 990. 7	21 00	2 328 502	37 195
52	6	2	1 597. 23	. 98	2	95 833. 7	22 00	2 439 342	40 821
53	6	3	1 627. 95	. 98	3	97 676. 7	23 00	2 550 177	44 616
54	6	4	1 658. 66	. 98	4	99 519. 7	24 00	2 661 006	48 579
5 55	30. 716	55	1 689. 38	1842. 98	55	101 362. 7	25 00	2 771 829	52 711
56	6	6	1 720. 10	. 99	6	103 205. 6	26 00	2 882 645	57 013
57	6	7	1 750. 81	. 99	7	105 048. 6	27 00	2 993 455	61 483
58	6	8	1 781. 53	. 99	8	106 891. 6	28 00	3 104 259	66 120
59	6	9	1 812. 24	. 99	9	108 734. 6	29 00	3 215 055	70 926
5 60	30. 716	60	1 842. 96	1842. 99	60	110 577. 6	30 00	3 325 844	75 900

Latitude 6° to 7°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
6 00	30.754	61.51	92.26	123.02	153.77	184.52	215.28	246.03	276.79	1845.2	3690.5	5535.7	7381.0	9226.2
1	.753	.51	.26	.02	.77	.52	.27	.02	.78	5.2	0.4	5.5	0.8	5.9
2	.752	.51	.26	.01	.76	.51	.27	.02	.77	5.1	0.3	5.4	0.6	5.6
3	.751	.50	.25	.01	.76	.51	.26	.01	.76	5.1	0.1	5.2	0.3	5.4
4	.750	.50	.25	.00	.75	.50	.25	6.00	.75	5.0	90.0	5.1	80.1	5.1
6 05	30.749	61.50	92.25	123.00	153.75	184.50	215.24	245.99	276.74	1845.0	3689.9	5534.9	7379.9	9224.8
6	.748	.50	.24	.00	.74	.49	.24	.99	.74	4.9	9.8	4.7	9.7	4.5
7	.747	.50	.24	3.00	.74	.49	.23	.98	.73	4.9	9.7	4.5	9.4	4.2
8	.747	.49	.24	2.99	.73	.48	.22	.97	.72	4.8	9.6	4.4	9.2	4.0
9	.746	.49	.24	.99	.73	.48	.22	.97	.71	4.8	9.5	4.2	8.9	3.7
6 10	30.745	61.49	92.23	122.98	153.72	184.47	215.21	245.96	276.70	1844.7	3689.4	5534.0	7378.7	9223.4
11	.744	.49	.23	.98	.72	.46	.20	.95	.69	4.6	9.3	3.8	8.5	3.1
12	.743	.49	.23	.97	.71	.46	.20	.94	.68	4.6	9.2	3.7	8.3	2.8
13	.742	.48	.22	.97	.71	.45	.19	.94	.67	4.5	9.0	3.5	8.0	2.5
14	.741	.48	.22	.96	.70	.45	.18	.93	.66	4.5	8.9	3.4	7.8	2.2
6 15	30.740	61.48	92.22	122.96	153.70	184.44	215.17	245.92	276.65	1844.4	3688.8	5533.2	7377.6	9221.9
16	.739	.48	.22	.96	.69	.43	.17	.91	.65	4.3	8.7	3.0	7.4	1.6
17	.738	.48	.21	.95	.69	.43	.16	.90	.64	4.3	8.6	2.8	7.1	1.3
18	.737	.47	.21	.95	.68	.42	.15	.90	.63	4.2	8.4	2.7	6.9	1.1
19	.736	.47	.21	.94	.68	.42	.15	.89	.62	4.2	8.3	2.5	6.6	0.8
6 20	30.735	61.47	92.20	122.94	153.67	184.41	215.14	245.88	276.61	1844.1	3688.2	5532.3	7376.4	9220.5
21	.734	.47	.20	.94	.67	.40	.13	.87	.60	4.0	8.1	2.1	6.2	20.2
22	.733	.47	.20	.93	.66	.40	.13	.86	.59	4.0	8.0	1.9	5.9	19.9
23	.732	.46	.20	.93	.66	.39	.12	.86	.58	3.9	7.8	1.8	5.7	9.6
24	.731	.46	.19	.92	.65	.39	.11	.85	.57	3.9	7.7	1.6	5.4	9.3
6 25	30.730	61.46	92.19	122.92	153.65	184.38	215.10	245.84	276.56	1843.8	3687.6	5531.4	7375.2	9219.0
26	.729	.46	.19	.92	.64	.37	.10	.83	.56	3.7	7.5	1.2	5.0	8.7
27	.728	.46	.18	.91	.64	.37	.09	.82	.55	3.7	7.4	1.0	4.7	8.4
28	.727	.45	.18	.91	.63	.36	.08	.82	.54	3.6	7.2	0.9	4.5	8.1
29	.726	.45	.18	.90	.63	.36	.08	.81	.53	3.6	7.1	0.7	4.2	7.8
6 30	30.725	61.45	92.17	122.90	153.62	184.35	215.07	245.80	276.52	1843.5	3687.0	5530.5	7374.0	9217.5
31	.724	.45	.17	.90	.62	.34	.06	.79	.51	3.4	6.9	0.3	3.8	7.2
32	.723	.45	.17	.89	.61	.34	.06	.78	.50	3.4	6.8	0.1	3.5	6.9
33	.722	.44	.16	.89	.61	.33	.05	.78	.49	3.3	6.6	30.0	3.3	6.5
34	.721	.44	.16	.88	.60	.33	.04	.77	.48	3.3	6.5	29.8	3.0	6.2
6 35	30.720	61.44	92.16	122.88	153.60	184.32	215.03	245.76	276.47	1843.2	3686.4	5529.6	7372.8	9215.9
36	.719	.44	.16	.88	.59	.31	.03	.75	.47	3.1	6.3	9.4	2.6	5.6
37	.718	.44	.15	.87	.59	.31	.02	.74	.46	3.1	6.2	9.2	2.3	5.3
38	.717	.43	.15	.87	.58	.30	.01	.74	.45	3.0	6.0	9.1	2.1	5.0
39	.716	.43	.15	.86	.58	.30	.01	.73	.44	3.0	5.9	8.9	1.8	4.7
6 40	30.715	61.43	92.14	122.86	153.57	184.29	215.00	245.72	276.43	1842.9	3685.8	5528.7	7371.6	9214.4
41	.714	.43	.14	.86	.57	.28	4.99	.71	.42	2.8	5.7	8.5	1.3	4.1
42	.713	.43	.14	.85	.56	.28	.99	.70	.41	2.8	5.5	8.3	1.1	3.8
43	.711	.42	.13	.85	.56	.27	.98	.69	.40	2.7	5.4	8.1	0.8	3.4
44	.710	.42	.13	.84	.55	.27	.97	.68	.39	2.7	5.2	7.9	0.6	3.1
6 45	30.709	61.42	92.13	122.84	153.55	184.26	214.96	245.67	276.38	1842.6	3685.1	5527.7	7370.3	9212.8
46	.708	.42	.12	.84	.54	.25	.96	.67	.38	2.5	5.0	7.5	70.0	2.5
47	.707	.42	.12	.83	.54	.25	.95	.66	.37	2.5	4.9	7.3	69.8	2.2
48	.706	.41	.12	.83	.53	.24	.94	.65	.36	2.4	4.7	7.2	9.5	1.9
49	.705	.41	.12	.82	.53	.24	.94	.64	.35	2.4	4.6	7.0	9.3	1.6
6 50	30.704	61.41	92.11	122.82	153.52	184.23	214.93	245.63	276.34	1842.3	3684.5	5526.8	7369.0	9211.3
51	.703	.41	.11	.82	.52	.22	.92	.62	.33	2.2	4.4	6.6	8.7	1.0
52	.702	.41	.11	.81	.51	.21	.91	.61	.32	2.1	4.3	6.4	8.5	0.6
53	.701	.40	.10	.81	.51	.21	.91	.61	.31	2.1	4.1	6.2	8.2	10.3
54	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.0	6.0	8.0	09.9
6 55	30.699	61.40	92.10	122.80	153.50	184.19	214.89	245.59	276.29	1841.9	3683.9	5525.8	7367.7	9209.6
56	.698	.40	.09	.79	.49	.19	.88	.58	.28	1.9	3.8	5.6	7.4	9.3
57	.697	.40	.09	.79	.49	.18	.87	.57	.27	1.8	3.6	5.4	7.2	9.0
58	.695	.39	.09	.78	.48	.17	.87	.57	.26	1.7	3.5	5.2	6.9	8.6
59	.694	.39	.08	.78	.48	.17	.86	.56	.25	1.7	3.3	5.0	6.7	8.3
6 60	30.693	61.39	92.08	122.77	153.47	184.16	214.85	245.55	276.24	1841.6	3683.2	5524.8	7366.4	9208.0

Lat.	Latitude 6° to 7°—Meridional arcs					Latitude 6°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 6°30'		Value of 1'	Continuous sums of minutes from latitude 6°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
6 00	30.716			1842.99			0 1	1 845.3	0.0
1	7	1	30.72	.99	1	1 843.0	2	3 690.5	0.1
2	7	2	61.43	.99	2	3 686.0	3	5 535.8	0.2
3	7	3	92.15	.99	3	5 529.0	4	7 381.0	0.4
4	7	4	122.87	.99	4	7 372.0			
6 05	30.717	5	153.59	1843.00	5	9 215.0	0 5	9 226.3	0.7
6	7	6	184.30	.00	6	11 058.0	6	11 071.5	1.0
7	7	7	215.02	.00	7	12 901.0	7	12 916.7	1.4
8	7	8	245.74	.00	8	14 744.0	8	14 762.0	1.8
9	7	9	276.45	.00	9	16 587.0	9	16 607.2	2.3
6 10	30.717	10	307.17	1843.00	10	18 430.0	0 10	18 452.5	2.8
11	7	1	337.89	.00	1	20 273.0	15	27 678.8	6.3
12	7	2	368.61	.00	2	22 116.0	20	36 905.0	11.2
13	7	3	399.32	.00	3	23 959.0	25	46 131.2	17.5
14	7	4	430.04	.01	4	25 802.0	30	55 357.5	25.3
6 15	30.717	15	460.76	1843.01	15	27 645.0	0 35	64 583.8	34.4
16	7	6	491.47	.01	6	29 488.0	40	73 810.0	44.9
17	7	7	522.19	.01	7	31 331.0	45	83 036.2	56.8
18	7	8	552.91	.01	8	33 174.0	50	92 262.5	70.1
19	7	9	583.63	.01	9	35 017.0	55	101 488.7	84.9
6 20	30.717	20	614.34	1843.01	20	36 860.0	1 00	110 714.9	101.0
21	7	1	645.06	.01	1	38 703.1	05	119 941.2	118.5
22	7	2	675.78	.02	2	40 546.1	10	129 167.4	137.5
23	7	3	706.49	.02	3	42 389.1	15	138 393.6	157.8
24	7	4	737.21	.02	4	44 232.1	20	147 619.9	179.5
6 25	30.717	25	767.93	1843.02	25	46 075.1	1 25	156 846.1	202.7
26	7	6	798.65	.02	6	47 918.2	30	166 072.3	227.2
27	7	7	829.36	.02	7	49 761.2	35	175 298.5	253.2
28	7	8	860.08	.02	8	51 604.2	40	184 524.7	280.5
29	7	9	890.80	.02	9	53 447.2	45	193 750.9	309.3
6 30	30.717	30	921.51	1843.03	30	55 290.3	1 50	202 977.1	339.4
31	7	1	952.23	.03	1	57 133.3	55	212 203.3	371.0
32	7	2	982.95	.03	2	58 976.3	2 00	221 429	404
33	7	3	1 013.67	.03	3	60 819.4	3 00	332 143	909
34	7	4	1 044.38	.03	4	62 662.4	4 00	442 856	1 616
6 35	30.717	35	1 075.10	1843.03	35	64 505.4	5 00	553 567	2 525
36	7	6	1 105.82	.03	6	66 348.4	6 00	664 277	3 636
37	7	7	1 136.54	.03	7	68 191.5	7 00	774 984	4 949
38	7	8	1 167.25	.04	8	70 034.5	8 00	885 689	6 464
39	7	9	1 197.97	.04	9	71 877.6	9 00	996 390	8 180
6 40	30.717	40	1 228.69	1843.04	40	73 720.6	10 00	1 107 088	10 099
41	7	1	1 259.40	.04	1	75 563.6	11 00	1 217 783	12 220
42	7	2	1 290.12	.04	2	77 406.7	12 00	1 328 474	14 543
43	7	3	1 320.84	.04	3	79 249.7	13 00	1 439 160	17 067
44	7	4	1 351.56	.04	4	81 092.8	14 00	1 549 841	19 793
6 45	30.717	45	1 382.27	1843.04	45	82 935.8	15 00	1 660 518	22 721
46	7	6	1 412.97	.05	6	84 778.9	16 00	1 771 189	25 852
47	7	7	1 443.71	.05	7	86 621.9	17 00	1 881 854	29 185
48	7	8	1 474.42	.05	8	88 464.9	18 00	1 992 512	32 719
49	7	9	1 505.14	.05	9	90 308.0	19 00	2 103 164	36 454
6 50	30.718	50	1 535.86	1843.05	50	92 151.1	20 00	2 213 809	40 392
51	8	1	1 566.57	.05	1	93 994.1	21 00	2 324 446	44 532
52	8	2	1 597.29	.05	2	95 837.2	22 00	2 435 076	48 874
53	8	3	1 628.01	.05	3	97 680.2	23 00	2 545 698	53 418
54	8	4	1 658.72	.06	4	99 523.3	24 00	2 656 311	58 163
6 55	30.718	55	1 689.44	1843.06	55	101 366.3	25 00	2 766 915	63 109
56	8	6	1 720.16	.06	6	103 209.4	26 00	2 877 511	68 257
57	8	7	1 750.88	.06	7	105 052.4	27 00	2 988 097	73 607
58	8	8	1 781.59	.06	8	106 895.5	28 00	3 098 672	79 160
59	8	9	1 812.31	.06	9	108 738.6	29 00	3 209 237	84 915
6 60	30.718	60	1 843.03	1843.06	60	110 581.6	30 00	3 319 792	90 871

Latitude 7° to 8°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
7 00	30.693	61.39	92.08	122.77	153.47	184.16	214.85	245.55	276.24	1841.6	3683.2	5524.8	7366.4	9208.0
1	.692	.39	.08	.77	.46	.15	.84	.54	.23	1.5	3.1	4.6	6.1	7.7
2	.691	.39	.07	.76	.46	.15	.84	.53	.22	1.5	3.0	4.4	5.9	7.4
3	.690	.38	.07	.76	.45	.14	.83	.52	.21	1.4	2.8	4.2	5.6	7.0
4	.689	.38	.07	.75	.45	.13	.82	.51	.20	1.3	2.7	4.0	5.4	6.7
7 05	30.688	61.38	92.06	122.75	153.44	184.13	214.81	245.50	276.19	1841.3	3682.6	5523.8	7365.1	9206.4
6	.687	.38	.06	.75	.43	.12	.81	.50	.18	1.2	2.5	3.6	4.8	6.1
7	.686	.38	.06	.74	.43	.11	.80	.49	.17	1.1	2.3	3.4	4.6	5.7
8	.685	.37	.05	.74	.42	.11	.79	.48	.16	1.1	2.2	3.2	4.3	5.4
9	.683	.37	.05	.73	.42	.10	.79	.47	.15	1.0	2.0	3.0	4.1	5.0
7 10	30.682	61.37	92.05	122.73	153.41	184.09	214.78	245.46	276.14	1840.9	3681.9	5522.8	7363.8	9204.7
11	.681	.37	.04	.73	.41	.08	.77	.45	.13	0.8	1.8	2.6	3.5	4.4
12	.680	.36	.04	.72	.40	.08	.76	.44	.12	0.8	1.6	2.4	3.2	4.0
13	.679	.36	.04	.72	.40	.07	.76	.43	.11	0.7	1.4	2.2	3.0	3.7
14	.678	.36	.03	.71	.39	.07	.75	.42	.10	0.7	1.3	2.0	2.7	3.3
7 15	30.677	61.35	92.03	122.71	153.39	184.06	214.74	245.41	276.09	1840.6	3681.2	5521.8	7362.4	9203.0
16	.676	.35	.03	.70	.38	.05	.73	.41	.08	0.5	1.1	1.6	2.1	2.7
17	.675	.35	.02	.70	.38	.05	.72	.40	.07	0.5	0.9	1.4	1.9	2.4
18	.673	.35	.02	.69	.37	.04	.72	.39	.06	0.4	0.8	1.2	1.6	2.0
19	.672	.34	.02	.69	.37	.04	.71	.38	.05	0.4	0.6	1.0	1.4	1.7
7 20	30.671	61.34	92.01	122.68	153.36	184.03	214.70	245.37	276.04	1840.3	3680.5	5520.8	7361.1	9201.4
21	.670	.34	.01	.68	.35	.02	.69	.36	.03	0.2	0.4	0.6	0.8	1.0
22	.669	.34	.01	.67	.35	.01	.68	.35	.02	0.1	0.2	0.4	0.5	0.7
23	.668	.33	.00	.67	.34	.01	.68	.34	.01	0.1	0.1	0.2	0.3	0.3
24	.667	.33	.00	.66	.34	4.00	.67	.33	6.00	40.0	79.9	20.0	60.0	200.0
7 25	30.665	61.33	92.00	122.66	153.33	183.99	214.66	245.32	275.99	1839.9	3679.8	5519.8	7359.7	9199.6
26	.664	.33	1.99	.66	.32	.99	.65	.32	.98	9.9	9.7	9.6	9.4	9.3
27	.663	.33	.99	.65	.32	.98	.64	.31	.97	9.8	9.6	9.4	9.1	8.9
28	.662	.32	.99	.65	.31	.97	.64	.30	.96	9.7	9.4	9.1	8.9	8.6
29	.661	.32	.98	.64	.31	.97	.63	.29	.95	9.7	9.3	8.9	8.6	8.2
7 30	30.660	61.32	91.98	122.64	153.30	183.96	214.62	245.28	275.94	1839.6	3679.2	5518.7	7358.3	9197.9
31	.658	.32	.98	.64	.29	.95	.61	.27	.93	9.5	9.0	8.5	8.0	7.5
32	.657	.32	.97	.63	.29	.94	.60	.26	.92	9.4	8.9	8.3	7.7	7.2
33	.656	.31	.97	.63	.28	.94	.59	.25	.91	9.4	8.7	8.1	7.5	6.8
34	.655	.31	.96	.62	.28	.93	.58	.24	.90	9.3	8.6	7.9	7.2	6.5
7 35	30.654	61.31	91.96	122.62	153.27	183.92	214.57	245.23	275.88	1839.2	3678.4	5517.7	7356.9	9196.1
36	.653	.31	.96	.61	.26	.92	.57	.22	.87	9.2	8.3	7.5	6.6	5.8
37	.651	.31	.95	.61	.26	.91	.56	.21	.86	9.1	8.1	7.3	6.3	5.4
38	.650	.30	.95	.60	.25	.90	.55	.20	.85	9.0	8.0	7.0	6.1	5.1
39	.649	.30	.95	.60	.25	.90	.54	.19	.84	9.0	7.8	6.8	5.8	4.7
7 40	30.648	61.30	91.94	122.59	153.24	183.89	214.53	245.18	275.83	1838.9	3677.7	5516.6	7355.5	9194.4
41	.647	.30	.94	.59	.23	.88	.52	.17	.82	8.8	7.6	6.4	5.2	4.0
42	.645	.29	.94	.58	.23	.87	.51	.16	.81	8.7	7.4	6.2	4.9	3.6
43	.644	.29	.93	.58	.22	.87	.51	.15	.80	8.7	7.3	5.9	4.6	3.3
44	.643	.29	.93	.57	.22	.86	.50	.14	.79	8.6	7.1	5.7	4.3	2.9
7 45	30.642	61.28	91.92	122.57	153.21	183.85	214.49	245.13	275.77	1838.5	3677.0	5515.5	7354.0	9192.5
46	.640	.28	.92	.56	.20	.84	.48	.13	.76	8.4	6.9	5.3	3.7	2.1
47	.639	.28	.92	.56	.20	.83	.47	.12	.75	8.3	6.7	5.1	3.4	1.8
48	.638	.28	.91	.55	.19	.83	.47	.11	.74	8.3	6.6	4.8	3.2	1.4
49	.637	.27	.91	.55	.19	.82	.46	.10	.73	8.2	6.4	4.6	2.9	1.1
7 50	30.636	61.27	91.91	122.54	153.18	183.81	214.45	245.09	275.72	1838.1	3676.3	5514.4	7352.6	9190.7
51	.634	.27	.90	.54	.17	.80	.44	.08	.71	8.0	6.1	4.2	2.3	0.3
52	.633	.27	.90	.53	.17	.80	.43	.07	.70	8.0	6.0	4.0	2.0	90.0
53	.632	.26	.90	.53	.16	.79	.42	.06	.69	7.9	5.8	3.7	1.7	89.6
54	.631	.26	.89	.52	.16	.79	.41	.05	.68	7.9	5.7	3.5	1.4	9.3
7 55	30.630	61.26	91.89	122.52	153.15	183.78	214.40	245.04	275.66	1837.8	3675.5	5513.3	7351.1	9188.9
56	.628	.26	.89	.51	.14	.77	.40	.03	.65	7.7	5.4	3.1	0.8	8.5
57	.627	.26	.88	.51	.14	.76	.39	.02	.64	7.6	5.2	2.9	0.5	8.1
58	.626	.25	.88	.50	.13	.76	.38	.01	.63	7.6	5.1	2.6	50.2	7.8
59	.625	.25	.87	.50	.13	.75	.37	5.00	.62	7.5	4.9	2.4	49.9	7.4
7 60	30.623	61.25	91.87	122.49	153.12	183.74	214.36	244.99	275.61	1837.4	3674.8	5512.2	7349.6	9187.0

Latitude	Latitude 7° to 8°—Meridional arcs						Latitude 7°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 7°30'		Value of 1'	Continuous sums of minutes from latitude 7°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
7 00	30.718			1843.06			0 1	1 841.6	0.0
1	8	1	30.72	.07	1	1 843.1	0 2	3 683.2	0.1
2	8	2	61.44	.07	2	3 686.1	0 3	5 524.8	0.3
3	8	3	92.16	.07	3	5 529.2	0 4	7 366.4	0.5
4	8	4	122.87	.07	4	7 372.3			
7 05	30.718	5	153.59	1843.07	5	9 215.3	0 5	9 208.0	0.8
6	8	6	184.31	.07	6	11 058.4	0 6	11 049.7	1.2
7	8	7	215.03	.07	7	12 901.5	0 7	12 891.3	1.6
8	8	8	245.75	.08	8	14 744.6	0 8	14 732.9	2.1
9	8	9	276.47	.08	9	16 587.6	0 9	16 574.5	2.6
7 10	30.718	10	307.18	1843.08	10	18 430.7	0 10	18 416.1	3.3
11	8	1	337.90	.08	1	20 273.8	0 15	27 624.1	7.3
12	8	2	368.62	.08	2	22 116.9	0 20	36 832.1	13.1
13	8	3	399.34	.08	3	23 960.0	0 25	46 040.2	20.4
14	8	4	430.06	.08	4	25 803.0	0 30	55 248.2	29.4
7 15	30.718	15	460.78	1843.09	15	27 646.1	0 35	64 456.2	40.0
16	8	6	491.49	.09	6	29 489.2	0 40	73 664.3	52.2
17	8	7	522.21	.09	7	31 332.3	0 45	82 872.3	66.1
18	8	8	552.93	.09	8	33 175.4	0 50	92 080.3	81.6
19	8	9	583.65	.09	9	35 018.5	0 55	101 288.3	98.7
7 20	30.718	20	614.37	1843.09	20	36 861.6	1 00	110 496.4	117.5
21	8	1	645.09	.09	1	38 704.7	1 05	119 704.4	137.9
22	8	2	675.81	.10	2	40 547.8	1 10	128 912.4	160.0
23	8	3	706.52	.10	3	42 390.9	1 15	138 120.4	183.6
24	8	4	737.24	.10	4	44 234.0	1 20	147 328.4	208.9
7 25	30.718	25	767.96	1843.10	25	46 077.1	1 25	156 536.4	235.8
26	8	6	798.68	.10	6	47 920.2	1 30	165 744.4	264.4
27	8	7	829.40	.10	7	49 763.3	1 35	174 952.4	294.6
28	8	8	860.12	.10	8	51 606.4	1 40	184 160.4	326.4
29	8	9	890.83	.10	9	53 449.5	1 45	193 368.4	359.9
7 30	30.718	30	921.55	1843.11	30	55 292.6	1 50	202 576.3	395.0
31	8	1	952.27	.11	1	57 135.7	1 55	211 784.3	431.7
32	8	2	982.99	.11	2	58 978.8	2 00	220 992	470
33	8	3	1 013.71	.11	3	60 821.9	2 05	331 487	1 058
34	8	4	1 044.43	.11	4	62 665.0	2 10	441 981	1 880
7 35	30.719	35	1 075.15	1843.11	35	64 508.1	5 00	552 472	2 938
36	9	6	1 105.86	.11	6	66 351.2	6 00	662 961	4 231
37	9	7	1 136.58	.11	7	68 194.4	7 00	773 447	5 758
38	9	8	1 167.30	.11	8	70 037.5	8 00	883 929	7 521
39	9	9	1 198.02	.12	9	71 880.6	9 00	994 407	9 519
7 40	30.719	40	1 228.74	1843.12	40	73 723.7	10 00	1 104 881	11 751
41	9	1	1 259.46	.12	1	75 566.8	11 00	1 215 350	14 218
42	9	2	1 290.17	.12	2	77 409.9	12 00	1 325 813	16 921
43	9	3	1 320.89	.12	3	79 253.1	13 00	1 436 271	19 859
44	9	4	1 351.61	.12	4	81 096.2	14 00	1 546 722	23 031
7 45	30.719	45	1 382.33	1843.13	45	82 939.3	15 00	1 657 166	26 438
46	9	6	1 413.05	.13	6	84 782.4	16 00	1 767 602	30 080
47	9	7	1 443.77	.13	7	86 625.6	17 00	1 878 030	33 958
48	9	8	1 474.48	.13	8	88 468.7	18 00	1 988 450	38 070
49	9	9	1 505.20	.13	9	90 311.8	19 00	2 098 861	42 417
7 50	30.719	50	1 535.92	1843.13	50	92 155.0	20 00	2 209 263	46 999
51	9	1	1 566.64	.13	1	93 998.1	21 00	2 319 654	51 815
52	9	2	1 597.36	.14	2	95 841.2	22 00	2 430 035	56 866
53	9	3	1 628.08	.14	3	97 684.4	23 00	2 540 405	62 152
54	9	4	1 658.80	.14	4	99 527.5	24 00	2 650 764	67 673
7 55	30.719	55	1 689.51	1843.14	55	101 370.7	25 00	2 761 111	73 429
56	9	6	1 720.23	.14	6	103 213.8	26 00	2 871 444	79 420
57	9	7	1 750.95	.14	7	105 056.9	27 00	2 981 766	85 644
58	9	8	1 781.67	.15	8	106 900.1	28 00	3 092 073	92 103
59	9	9	1 812.39	.15	9	108 743.2	29 00	3 202 367	98 797
7 60	30.719	60	1 843.11	1843.15	60	110 586.4	30 00	3 312 646	105 727

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 8° to 9°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
8 00	30.623	61.25	91.87	122.49	153.12	183.74	214.36	244.99	275.61	1837.4	3674.8	5512.2	7349.6	9187.0
1	.622	.25	.87	.49	.11	.73	.35	.98	.60	7.3	4.7	2.0	9.3	6.6
2	.621	.24	.86	.48	.11	.72	.34	.97	.59	7.2	4.5	1.8	9.0	6.2
3	.620	.24	.86	.48	.10	.72	.34	.96	.58	7.2	4.4	1.5	8.7	5.9
4	.618	.24	.85	.47	.09	.71	.33	.95	.57	7.1	4.2	1.3	8.4	5.5
8 05	30.617	61.23	91.85	122.47	153.08	183.70	214.32	244.94	275.55	1837.0	3674.1	5511.1	7348.1	9185.1
6	.616	.23	.85	.46	.08	.69	.31	.93	.54	6.9	3.9	0.9	7.8	4.7
7	.615	.23	.84	.46	.07	.69	.30	.92	.53	6.9	3.8	0.7	7.5	4.4
8	.613	.23	.84	.45	.06	.68	.29	.91	.52	6.8	3.6	0.4	7.2	4.0
9	.612	.22	.84	.45	.06	.68	.29	.90	.51	6.8	3.5	0.2	6.9	3.7
8 10	30.611	61.22	91.83	122.44	153.05	183.67	214.28	244.89	275.50	1836.7	3673.3	5510.0	7346.6	9183.3
11	.610	.22	.83	.44	.04	.66	.27	.88	.49	6.6	3.1	0.9	6.3	2.9
12	.608	.22	.82	.43	.04	.65	.26	.87	.48	6.5	3.0	0.5	6.0	2.5
13	.607	.21	.82	.43	.03	.65	.25	.86	.46	6.5	2.8	0.3	5.7	2.1
14	.606	.21	.82	.42	.03	.64	.24	.85	.45	6.4	2.7	0.0	5.4	1.7
8 15	30.604	61.21	91.81	122.42	153.02	183.63	214.23	244.83	275.44	1836.3	3672.5	5508.8	7345.1	9181.3
16	.603	.21	.81	.41	.01	.62	.23	.82	.43	6.2	2.4	8.6	4.8	0.9
17	.602	.21	.80	.41	.01	.61	.22	.81	.42	6.1	2.2	8.4	4.5	0.5
18	.601	.20	.80	.40	.00	.61	.21	.80	.40	6.1	2.1	8.1	4.1	80.2
19	.599	.20	.80	.40	3.00	.60	.20	.79	.39	6.0	1.9	7.9	3.8	79.8
8 20	30.598	61.20	91.79	122.39	152.99	183.59	214.19	244.78	275.38	1835.9	3671.8	5507.7	7343.5	9179.4
21	.597	.20	.79	.39	.98	.58	.18	.77	.37	5.8	1.6	7.5	3.2	9.0
22	.595	.19	.79	.38	.98	.57	.17	.76	.36	5.7	1.5	7.2	2.9	8.6
23	.594	.19	.78	.38	.97	.57	.16	.75	.35	5.7	1.3	7.0	2.6	8.3
24	.593	.19	.78	.37	.97	.56	.15	.74	.34	5.6	1.2	6.7	2.3	7.9
8 25	30.592	61.18	91.77	122.37	152.96	183.55	214.14	244.73	275.32	1835.5	3671.0	5506.5	7342.0	9177.5
26	.590	.18	.77	.36	.95	.54	.14	.72	.31	5.4	0.8	6.3	1.7	7.1
27	.589	.18	.77	.36	.95	.53	.13	.71	.30	5.3	0.7	6.0	1.4	6.7
28	.588	.18	.76	.35	.94	.53	.12	.70	.29	5.3	0.5	5.8	1.0	6.3
29	.586	.17	.76	.35	.94	.52	.11	.69	.28	5.2	0.4	5.5	0.7	5.9
8 30	30.585	61.17	91.76	122.34	152.93	183.51	214.10	244.68	275.27	1835.1	3670.2	5505.3	7340.4	9175.5
31	.584	.17	.75	.34	.92	.50	.09	.67	.26	5.0	70.0	5.1	40.1	5.1
32	.582	.16	.75	.33	.92	.49	.08	.66	.25	4.9	69.9	4.8	39.8	4.7
33	.581	.16	.74	.33	.91	.49	.07	.65	.23	4.9	9.7	4.6	9.4	4.3
34	.580	.16	.74	.32	.90	.48	.06	.64	.22	4.8	9.6	4.3	9.1	3.9
8 35	30.578	61.15	91.74	122.32	152.89	183.47	214.05	244.62	275.21	1834.7	3669.4	5504.1	7338.8	9173.5
36	.577	.15	.73	.31	.89	.46	.04	.61	.20	4.6	9.2	3.9	8.5	3.1
37	.576	.15	.73	.31	.88	.45	.03	.60	.19	4.5	9.1	3.6	8.2	2.7
38	.574	.15	.72	.30	.87	.45	.02	.59	.17	4.5	8.9	3.4	7.8	2.3
39	.573	.14	.72	.30	.87	.44	.01	.58	.16	4.4	8.8	3.1	7.5	1.9
8 40	30.572	61.14	91.72	122.29	152.86	183.43	214.00	244.57	275.15	1834.3	3668.6	5502.9	7337.2	9171.5
41	.570	.14	.71	.28	.85	.42	3.99	.56	.14	4.2	8.4	2.7	6.9	1.1
42	.569	.14	.71	.28	.85	.41	.98	.55	.12	4.1	8.3	2.4	6.6	0.7
43	.568	.13	.70	.27	.84	.41	.97	.54	.11	4.1	8.1	2.2	6.2	70.3
44	.566	.13	.70	.27	.83	.40	.96	.53	.10	4.0	8.0	1.9	5.9	69.9
8 45	30.565	61.13	91.70	122.26	152.82	183.39	213.95	244.51	275.09	1833.9	3667.8	5501.7	7335.6	9169.5
46	.564	.13	.69	.25	.82	.38	.95	.50	.07	3.8	7.6	1.5	5.3	9.1
47	.562	.13	.69	.25	.81	.37	.94	.49	.06	3.7	7.5	1.2	4.9	8.7
48	.561	.12	.68	.24	.80	.36	.93	.48	.05	3.6	7.3	1.0	4.6	8.2
49	.559	.12	.68	.24	.80	.36	.92	.47	.03	3.6	7.2	0.7	4.2	7.8
8 50	30.558	61.12	91.67	122.23	152.79	183.35	213.91	244.46	275.02	1833.5	3667.0	5500.5	7333.9	9167.4
51	.557	.12	.67	.23	.78	.34	.90	.45	.01	3.4	6.8	0.2	3.6	7.0
52	.555	.11	.67	.22	.78	.33	.89	.44	5.00	3.3	6.6	5500.0	3.3	6.6
53	.554	.11	.66	.22	.77	.33	.88	.43	4.98	3.3	6.5	499.7	2.9	6.1
54	.552	.11	.66	.21	.76	.32	.87	.42	.97	3.2	6.3	9.5	2.6	5.7
8 55	30.551	61.10	91.65	122.21	152.75	183.31	213.86	244.40	274.96	1833.1	3666.1	5499.2	7332.3	9165.3
56	.550	.10	.65	.20	.75	.30	.85	.39	.95	3.0	5.9	9.0	2.0	4.9
57	.548	.10	.64	.20	.74	.29	.84	.38	.94	2.9	5.8	8.7	1.6	4.5
58	.547	.10	.64	.19	.73	.28	.83	.37	.92	2.8	5.6	8.5	1.3	4.1
59	.546	.09	.64	.19	.73	.28	.82	.36	.91	2.8	5.5	8.2	0.9	3.7
8 60	30.544	61.09	91.63	122.18	152.72	183.27	213.81	244.35	274.90	1832.7	3665.3	5498.0	7330.6	9163.3

Lat.	Latitude 8° to 9°—Meridional arcs					Latitude 8°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 8°30'		Value of 1'	Continuous sums of minutes from latitude 8°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
8 00	30.719			1843.15			0 1	1 837.4	0.0
1	9	1	30.72	.15	1	1 843.2	0 2	3 674.8	0.1
2	9	2	61.44	.15	2	3 686.3	0 3	5 512.2	0.3
3	9	3	92.16	.16	3	5 529.5	0 4	7 349.6	0.6
4	9	4	122.88	.16	4	7 372.6			
8 05	30.719	5	153.60	1843.16	5	9 215.8	0 5	9 187.0	0.9
6	9	6	184.32	.16	6	11 058.9	0 6	11 024.4	1.3
7	9	7	215.04	.16	7	12 902.1	0 7	12 861.9	1.8
8	9	8	245.76	.16	8	14 745.3	0 8	14 699.3	2.4
9	9	9	276.48	.16	9	16 588.4	0 9	16 536.7	3.0
8 10	30.719	10	307.20	1843.17	10	18 431.6	0 10	18 374.1	3.7
11	9	1	337.92	.17	1	20 274.8	0 15	27 561.1	8.4
12	19	2	368.64	.17	2	22 117.9	0 20	36 748.2	14.9
13	20	3	399.36	.17	3	23 961.1	0 25	45 935.2	23.2
14	0	4	430.08	.17	4	25 804.3	0 30	55 122.3	33.5
8 15	30.720	15	460.80	1843.17	15	27 647.4	0 35	64 309.3	45.6
16	0	6	491.52	.17	6	29 490.6	0 40	73 496.4	59.5
17	0	7	522.24	.18	7	31 333.8	0 45	82 683.4	75.3
18	0	8	552.96	.18	8	33 177.0	0 50	91 870.4	93.0
19	0	9	583.68	.18	9	35 020.2	0 55	101 057.5	112.5
8 20	30.720	20	614.40	1843.18	20	36 863.3	1 00	110 244.5	133.9
21	0	1	645.12	.18	1	38 706.5	1 05	119 431.5	157.1
22	0	2	675.84	.18	2	40 549.7	1 10	128 618.5	182.2
23	0	3	706.56	.19	3	42 392.9	1 15	137 805.5	209.2
24	0	4	737.28	.19	4	44 236.1	1 20	146 992.5	238.0
8 25	30.720	25	768.00	1843.19	25	46 079.3	1 25	156 179.5	268.7
26	0	6	798.72	.19	6	47 922.5	1 30	165 366.5	301.3
27	0	7	829.44	.19	7	49 765.6	1 35	174 553.4	335.7
28	0	8	860.16	.19	8	51 608.8	1 40	183 740.4	371.9
29	0	9	890.88	.19	9	53 452.0	1 45	192 927.4	410.0
8 30	30.720	30	921.60	1843.20	30	55 295.2	1 50	202 114.3	450.0
31	0	1	952.32	.20	1	57 138.4	1 55	211 301.3	491.9
32	0	2	983.04	.20	2	58 981.6	2 00	220 488	536
33	0	3	1 013.76	.20	3	60 824.8	2 05	330 730	1 205
34	0	4	1 044.48	.20	4	62 668.0	2 10	440 971	2 142
8 35	30.720	35	1 075.20	1843.20	35	64 511.2	5 00	551 209	3 347
36	0	6	1 105.92	.20	6	66 354.4	6 00	661 444	4 820
37	0	7	1 136.64	.21	7	68 197.6	7 00	771 675	6 561
38	0	8	1 167.36	.21	8	70 040.8	8 00	881 901	8 569
39	0	9	1 198.08	.21	9	71 884.0	9 00	992 122	10 845
8 40	30.720	40	1 228.80	1843.21	40	73 727.2	10 00	1 102 337	13 389
41	0	1	1 259.52	.21	1	75 570.4	11 00	1 212 546	16 200
42	0	2	1 290.24	.21	2	77 413.6	12 00	1 322 747	19 279
43	0	3	1 320.96	.22	3	79 256.8	13 00	1 432 940	22 626
44	0	4	1 351.68	.22	4	81 100.1	14 00	1 543 126	26 240
8 45	30.720	45	1 382.40	1843.22	45	82 943.3	15 00	1 653 302	30 123
46	0	6	1 413.12	.22	6	84 786.5	16 00	1 763 469	34 274
47	0	7	1 443.84	.22	7	86 629.7	17 00	1 873 626	38 692
48	0	8	1 474.56	.22	8	88 472.9	18 00	1 983 771	43 378
49	0	9	1 505.28	.22	9	90 316.2	19 00	2 093 904	48 330
8 50	30.720	50	1 536.00	1843.23	50	92 159.4	20 00	2 204 024	53 548
51	0	1	1 566.72	.23	1	94 002.6	21 00	2 314 131	59 034
52	0	2	1 597.44	.23	2	95 845.9	22 00	2 424 225	64 789
53	1	3	1 628.16	.23	3	97 689.1	23 00	2 534 305	70 811
54	1	4	1 658.88	.23	4	99 532.3	24 00	2 644 370	77 101
8 55	30.721	55	1 689.60	1843.23	55	101 375.6	25 00	2 754 420	83 658
56	1	6	1 720.32	.24	6	103 218.8	26 00	2 864 454	90 482
57	1	7	1 751.04	.24	7	105 062.0	27 00	2 974 470	97 573
58	1	8	1 781.76	.24	8	106 905.3	28 00	3 084 468	104 932
59	1	9	1 812.48	.24	9	108 748.5	29 00	3 194 449	112 558
8 60	30.721	60	1 843.20	1843.24	60	110 591.8	30 00	3 304 411	120 451

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 9° to 10°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
9 00	30.544	61.09	91.63	122.18	152.72	183.27	213.81	244.35	274.90	1832.7	3665.3	5498.0	7330.6	9163.3
1	.543	.09	.63	.17	.71	.26	.80	.34	.89	2.6	5.1	7.7	30.3	2.9
2	.541	.08	.62	.17	.71	.25	.79	.33	.87	2.5	5.0	7.5	29.9	2.4
3	.540	.08	.62	.16	.70	.24	.78	.32	.86	2.4	4.8	7.2	9.6	2.0
4	.538	.08	.61	.16	.69	.23	.77	.31	.85	2.3	4.7	7.0	9.2	1.5
9 05	30.537	61.07	91.61	122.15	152.68	183.22	213.76	244.29	274.83	1832.2	3664.5	5496.7	7328.9	9161.1
6	.536	.07	.61	.14	.68	.21	.75	.28	.82	2.1	4.3	6.4	8.6	0.7
7	.534	.07	.60	.14	.67	.21	.74	.27	.81	2.1	4.1	6.2	8.2	60.3
8	.533	.07	.60	.13	.66	.20	.73	.26	.80	2.0	4.0	5.9	7.9	59.8
9	.531	.06	.59	.13	.66	.19	.72	.25	.78	1.9	3.8	5.7	7.5	9.4
9 10	30.530	61.06	91.59	122.12	152.65	183.18	213.71	244.24	274.77	1831.8	3663.6	5495.4	7327.2	9159.0
11	.529	.06	.59	.11	.64	.17	.70	.23	.76	1.7	3.4	5.1	6.9	8.6
12	.527	.05	.58	.11	.64	.16	.69	.22	.74	1.6	3.3	4.9	6.5	8.2
13	.526	.05	.58	.10	.63	.15	.68	.21	.73	1.5	3.1	4.6	6.2	7.7
14	.524	.05	.57	.10	.62	.15	.67	.20	.72	1.5	3.0	4.4	5.8	7.3
9 15	30.523	61.04	91.57	122.09	152.61	183.14	213.66	244.18	274.70	1831.4	3662.8	5494.1	7325.5	9156.9
16	.522	.04	.57	.08	.61	.13	.65	.17	.69	1.3	2.6	3.8	5.2	6.5
17	.520	.04	.56	.08	.60	.12	.64	.16	.68	1.2	2.4	3.6	4.8	6.0
18	.519	.04	.56	.07	.59	.11	.63	.15	.67	1.1	2.3	3.3	4.5	5.6
19	.517	.03	.55	.07	.59	.10	.62	.14	.65	1.0	2.1	3.1	4.1	5.1
9 20	30.516	61.03	91.55	122.06	152.58	183.09	213.61	244.13	274.64	1830.9	3661.9	5492.8	7323.8	9154.7
21	.514	.03	.54	.05	.57	.08	.60	.12	.63	0.8	1.7	2.5	3.4	4.3
22	.513	.02	.54	.05	.57	.07	.59	.11	.61	0.7	1.5	2.3	3.1	3.8
23	.511	.02	.53	.04	.56	.07	.58	.09	.60	0.7	1.4	2.0	2.7	3.4
24	.510	.02	.53	.04	.55	.06	.57	.08	.59	0.6	1.2	1.8	2.4	2.9
9 25	30.508	61.01	91.53	122.03	152.54	183.05	213.56	244.07	274.57	1830.5	3661.0	5491.5	7322.0	9152.5
26	.507	.01	.52	.02	.54	.04	.55	.06	.56	0.4	0.8	1.2	1.7	2.1
27	.505	.01	.52	.02	.53	.03	.54	.05	.55	0.3	0.6	1.0	1.3	1.6
28	.504	.01	.51	.01	.52	.03	.53	.03	.54	0.3	0.5	0.7	1.0	1.2
29	.502	.00	.51	.01	.52	.02	.52	.02	.52	0.2	0.3	0.5	0.6	0.7
9 30	30.501	61.00	91.50	122.00	152.51	183.01	213.51	244.01	274.51	1830.1	3660.1	5490.2	7320.3	9150.3
31	.500	1.00	.50	1.99	.50	3.00	.50	4.00	.50	30.0	59.9	89.9	19.9	49.9
32	.498	0.99	.49	.99	.49	2.99	.49	3.99	.48	29.9	9.7	9.7	9.6	9.4
33	.497	.99	.49	.98	.49	.98	.48	.97	.47	9.8	9.6	9.4	9.2	9.0
34	.495	.99	.48	.98	.48	.97	.47	.96	.46	9.7	9.4	9.2	8.9	8.5
9 35	30.494	60.98	91.48	121.97	152.47	182.96	213.46	243.95	274.44	1829.6	3659.2	5488.9	7318.5	9148.1
36	.492	.98	.48	.96	.46	.96	.44	.94	.43	9.6	9.0	8.6	8.1	7.7
37	.491	.98	.47	.96	.45	.95	.43	.93	.42	9.5	8.9	8.3	7.8	7.2
38	.489	.98	.47	.95	.45	.94	.42	.91	.41	9.4	8.7	8.1	7.4	6.8
39	.488	.97	.46	.95	.44	.93	.41	.90	.39	9.3	8.6	7.8	7.1	6.3
9 40	30.486	60.97	91.46	121.94	152.43	182.92	213.40	243.89	274.38	1829.2	3658.4	5487.5	7316.7	9145.9
41	.485	.97	.45	.93	.42	.91	.39	.88	.37	9.1	8.2	7.2	6.3	5.4
42	.483	.96	.45	.93	.42	.90	.38	.87	.35	9.0	8.0	7.0	6.0	5.0
43	.482	.96	.45	.92	.41	.89	.37	.85	.34	8.9	7.8	6.7	5.6	4.5
44	.480	.96	.44	.92	.40	.88	.36	.84	.32	8.8	7.6	6.5	5.3	4.1
9 45	30.479	60.95	91.44	121.91	152.39	182.87	213.35	243.83	274.31	1828.7	3657.4	5486.2	7314.9	9143.6
46	.477	.95	.43	.90	.39	.86	.34	.82	.30	8.6	7.2	5.9	4.5	3.1
47	.476	.95	.43	.90	.38	.85	.33	.81	.28	8.5	7.0	5.6	4.2	2.7
48	.474	.95	.42	.89	.37	.85	.32	.79	.27	8.5	6.9	5.4	3.8	2.2
49	.473	.94	.42	.89	.37	.84	.31	.78	.25	8.4	6.7	5.1	3.5	1.8
9 50	30.471	60.94	91.41	121.88	152.36	182.83	213.30	243.77	274.24	1828.3	3656.5	5484.8	7313.1	9141.3
51	.469	.94	.41	.87	.35	.82	.29	.76	.23	8.2	6.3	4.5	2.7	0.8
52	.468	.93	.40	.87	.34	.81	.28	.75	.21	8.1	6.1	4.2	2.3	40.4
53	.466	.93	.40	.86	.34	.80	.27	.73	.20	8.0	6.0	4.0	2.0	39.9
54	.465	.93	.39	.86	.33	.79	.26	.72	.18	7.9	5.8	3.7	1.6	9.5
9 55	30.463	60.92	91.39	121.85	152.32	182.78	213.25	243.71	274.17	1827.8	3655.6	5483.4	7311.2	9139.0
56	.462	.92	.39	.84	.31	.77	.23	.70	.16	7.7	5.4	3.1	0.8	8.5
57	.460	.92	.38	.84	.30	.76	.22	.69	.14	7.6	5.2	2.8	0.5	8.1
58	.459	.92	.38	.83	.30	.75	.21	.67	.13	7.5	5.1	2.6	10.1	7.6
59	.457	.91	.37	.83	.29	.74	.20	.66	.11	7.4	4.9	2.3	09.8	7.2
9 60	30.456	60.91	91.37	121.82	152.28	182.73	213.19	243.65	274.10	1827.3	3654.7	5482.0	7309.4	9136.7

Lat.	Latitude 9° to 10°—Meridional arcs					Latitude 9°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 9°30'		Value of 1'	Continuous sums of minutes from latitude 9°00'	Longitude	X	Y	
° ' "	Meters	''	Meters	Meters	' "	Meters	Meters	Meters	
9 00	30.721			1843.24					
1	1	1	30.72	.25	1	1 843.2	0 1	1 832.6	0.0
2	1	2	61.44	.25	2	3 686.5	2	3 665.3	0.2
3	1	3	92.16	.25	3	5 529.7	3	5 498.0	0.4
4	1	4	122.89	.25	4	7 373.0	4	7 330.6	0.7
9 05	30.721	5	153.61	1843.25	5	9 216.2	0 5	9 163.3	1.0
6	1	6	184.33	.25	6	11 059.5	6	10 995.9	1.5
7	1	7	215.05	.26	7	12 902.8	7	12 828.6	2.0
8	1	8	245.77	.26	8	14 746.0	8	14 661.2	2.7
9	1	9	276.49	.26	9	16 589.3	9	16 493.9	3.4
9 10	30.721	10	307.22	1843.26	10	18 432.5	0 10	18 326.5	4.2
11	1	1	337.94	.26	1	20 275.8	15	27 489.8	9.4
12	1	2	368.66	.26	2	22 119.1	20	36 653.1	16.7
13	1	3	399.38	.27	3	23 962.3	25	45 816.4	26.1
14	1	4	430.10	.27	4	25 805.6	30	54 979.6	37.5
9 15	30.721	15	460.82	1843.27	15	27 648.9	0 35	64 142.9	51.1
16	1	6	491.55	.27	6	29 492.1	40	73 306.2	66.7
17	1	7	522.27	.27	7	31 335.4	45	82 469.4	84.4
18	1	8	552.99	.28	8	33 178.7	50	91 632.7	104.2
19	1	9	583.71	.28	9	35 022.0	55	100 795.9	126.1
9 20	30.721	20	614.43	1843.28	20	36 865.3	1 00	109 959.2	150.1
21	1	1	645.15	.28	1	38 708.5	05	119 122.4	176.2
22	1	2	675.88	.28	2	40 551.8	10	128 285.6	204.3
23	1	3	706.60	.28	3	42 395.1	15	137 448.9	234.6
24	1	4	737.32	.29	4	44 238.4	20	146 612.1	266.9
9 25	30.721	25	768.04	1843.29	25	46 081.7	1 25	155 775.3	301.3
26	1	6	798.76	.29	6	47 925.0	30	164 938.5	337.8
27	2	7	829.48	.29	7	49 768.3	35	174 101.7	376.3
28	2	8	860.21	.29	8	51 611.5	40	183 264.8	417.0
29	2	9	890.93	.29	9	53 454.8	45	192 428.0	459.7
9 30	30.722	30	921.65	1843.30	30	55 298.1	1 50	201 591.2	504.5
31	2	1	952.37	.30	1	57 141.4	55	210 754.3	551.4
32	2	2	983.09	.30	2	58 984.7	2 00	219 917	600
33	2	3	1 013.81	.30	3	60 828.0	3 00	329 874	1 351
34	2	4	1 044.53	.30	4	62 671.3	4 00	439 828	2 402
9 35	30.722	35	1 075.26	1843.31	35	64 514.6	5 00	549 779	3 753
36	2	6	1 105.98	.31	6	66 357.9	6 00	659 726	5 404
37	2	7	1 136.70	.31	7	68 201.2	7 00	769 668	7 355
38	2	8	1 167.42	.31	8	70 044.6	8 00	879 604	9 607
39	2	9	1 198.14	.31	9	71 887.9	9 00	989 534	12 158
9 40	30.722	40	1 228.86	1843.31	40	73 731.2	10 00	1 099 456	15 010
41	2	1	1 259.59	.32	1	75 574.5	11 00	1 209 370	18 162
42	2	2	1 290.31	.32	2	77 417.8	12 00	1 319 275	21 614
43	2	3	1 321.03	.32	3	79 261.1	13 00	1 429 171	25 367
44	2	4	1 351.75	.32	4	81 104.5	14 00	1 539 055	29 419
9 45	30.722	45	1 382.47	1843.32	45	82 947.8	15 00	1 648 928	33 770
46	2	6	1 413.19	.33	6	84 791.1	16 00	1 758 789	38 422
47	2	7	1 443.92	.33	7	86 634.4	17 00	1 868 637	43 374
48	2	8	1 474.64	.33	8	88 477.8	18 00	1 978 471	48 626
49	2	9	1 505.36	.33	9	90 321.1	19 00	2 088 289	54 178
9 50	30.722	50	1 536.08	1843.33	50	92 164.4	20 00	2 198 098	60 029
51	2	1	1 566.80	.33	1	94 007.7	21 00	2 307 889	66 180
52	2	2	1 597.52	.34	2	95 851.1	22 00	2 417 659	72 631
53	2	3	1 628.25	.34	3	97 694.4	23 00	2 527 402	79 382
54	2	4	1 658.97	.34	4	99 537.8	24 00	2 637 136	86 433
9 55	30.722	55	1 689.69	1843.34	55	101 381.1	25 00	2 746 848	93 783
56	2	6	1 720.41	.34	6	103 224.4	26 00	2 856 541	101 432
57	2	7	1 751.13	.35	7	105 067.8	27 00	2 966 213	109 381
58	2	8	1 781.85	.35	8	106 911.1	28 00	3 075 862	117 629
59	2	9	1 812.58	.35	9	108 754.4	29 00	3 185 488	126 177
9 60	30.723	60	1 843.30	1843.35	60	110 597.8	30 00	3 295 091	135 024

Latitude 10° to 11°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
10 00	30.456	60.91	91.37	121.82	152.28	182.73	213.19	243.65	274.10	1827.3	3654.7	5482.0	7309.4	9136.7
1	.454	.91	.36	.81	.27	.72	.18	.64	.09	7.2	4.5	1.7	9.0	6.2
2	.453	.90	.36	.81	.26	.71	.17	.62	.07	7.1	4.3	1.4	8.6	5.8
3	.451	.90	.35	.80	.26	.71	.16	.61	.06	7.1	4.1	1.2	8.3	5.3
4	.450	.90	.35	.80	.25	.70	.15	.60	.04	7.0	3.9	0.9	7.9	4.9
10 05	30.448	60.89	91.34	121.79	152.24	182.69	213.13	243.58	274.03	1826.9	3653.7	5480.6	7307.5	9134.4
6	.446	.89	.34	.78	.23	.68	.12	.57	.02	6.8	3.5	0.3	7.1	3.9
7	.445	.89	.33	.78	.22	.67	.11	.56	4.00	6.7	3.3	80.0	6.7	3.4
8	.443	.89	.33	.77	.22	.66	.10	.55	3.99	6.6	3.2	79.8	6.4	3.0
9	.442	.88	.33	.77	.21	.65	.09	.53	.97	6.5	3.0	9.5	6.0	2.5
10 10	30.440	60.88	91.32	121.76	152.20	182.64	213.08	243.52	273.96	1826.4	3652.8	5479.2	7305.6	9132.0
11	.438	.88	.32	.75	.19	.63	.07	.51	.95	6.3	2.6	8.9	5.2	1.5
12	.437	.87	.31	.75	.18	.62	.06	.50	.93	6.2	2.4	8.6	4.8	1.0
13	.435	.87	.31	.74	.18	.61	.05	.48	.92	6.1	2.3	8.4	4.5	0.6
14	.434	.87	.30	.74	.17	.60	.04	.47	.90	6.0	2.1	8.1	4.1	30.1
10 15	30.432	60.86	91.30	121.73	152.16	182.59	213.02	243.46	273.89	1825.9	3651.9	5477.8	7303.7	9129.6
16	.430	.86	.29	.72	.15	.58	.01	.45	.88	5.8	1.7	7.5	3.3	9.1
17	.429	.86	.29	.72	.14	.57	.00	.44	.86	5.7	1.5	7.2	2.9	8.7
18	.427	.86	.28	.71	.14	.57	2.99	.42	.85	5.7	1.3	7.0	2.6	8.2
19	.426	.85	.28	.71	.13	.56	.98	.41	.83	5.6	1.1	6.7	2.2	7.8
10 20	30.424	60.85	91.27	121.70	152.12	182.55	212.97	243.40	273.82	1825.5	3650.9	5476.4	7301.8	9127.3
21	.423	.85	.27	.69	.11	.54	.96	.39	.81	5.4	0.7	6.1	1.4	6.8
22	.421	.84	.26	.69	.10	.53	.95	.37	.79	5.3	0.5	5.8	1.0	6.3
23	.419	.84	.26	.68	.10	.52	.94	.36	.78	5.2	0.3	5.5	0.7	5.8
24	.418	.84	.25	.67	.09	.51	.93	.34	.76	5.1	50.1	5.2	300.3	5.3
10 25	30.416	60.83	91.25	121.67	152.08	182.50	212.91	243.33	273.75	1825.0	3649.9	5474.9	7299.9	9124.8
26	.414	.83	.24	.66	.07	.49	.90	.32	.73	4.9	9.7	4.6	9.5	4.3
27	.413	.83	.24	.65	.06	.48	.89	.30	.72	4.8	9.5	4.3	9.1	3.8
28	.411	.83	.23	.64	.06	.47	.88	.29	.70	4.7	9.4	4.0	8.7	3.4
29	.410	.82	.23	.64	.05	.46	.87	.27	.69	4.6	9.2	3.7	8.3	2.9
10 30	30.408	60.82	91.22	121.63	152.04	182.45	212.86	243.26	273.67	1824.5	3649.0	5473.4	7297.9	9122.4
31	.406	.82	.22	.62	.03	.44	.85	.25	.66	4.4	8.8	3.1	7.5	1.9
32	.405	.81	.21	.62	.02	.43	.84	.23	.64	4.3	8.6	2.8	7.1	1.4
33	.403	.81	.21	.61	.02	.42	.82	.22	.63	4.2	8.4	2.6	6.7	0.9
34	.401	.80	.20	.61	.01	.41	.81	.21	.61	4.1	8.2	2.3	6.3	20.4
10 35	30.400	60.80	91.20	121.60	152.00	182.40	212.80	243.20	273.60	1824.0	3648.0	5472.0	7295.9	9119.9
36	.398	.80	.19	.59	1.99	.39	.79	.18	.58	3.9	7.8	1.7	5.5	9.4
37	.396	.79	.19	.59	.98	.38	.78	.17	.57	3.8	7.6	1.4	5.1	8.9
38	.395	.79	.18	.58	.98	.37	.76	.16	.55	3.7	7.4	1.1	4.8	8.5
39	.393	.78	.18	.58	.97	.36	.75	.14	.54	3.6	7.2	0.8	4.4	8.0
10 40	30.392	60.78	91.17	121.57	151.96	182.35	212.74	243.13	273.52	1823.5	3647.0	5470.5	7294.0	9117.5
41	.390	.78	.17	.56	.95	.34	.73	.12	.51	3.4	6.8	70.2	3.6	7.0
42	.388	.77	.16	.56	.94	.33	.72	.10	.49	3.3	6.6	69.9	3.2	6.5
43	.387	.77	.16	.55	.93	.32	.70	.09	.48	3.2	6.4	9.6	2.8	6.0
44	.385	.77	.15	.54	.92	.31	.69	.08	.46	3.1	6.2	9.3	2.4	5.5
10 45	30.383	60.76	91.15	121.53	151.91	182.30	212.68	243.06	273.45	1823.0	3646.0	5469.0	7292.0	9115.0
46	.382	.76	.14	.53	.91	.29	.67	.05	.43	2.9	5.8	8.7	1.6	4.5
47	.380	.76	.14	.52	.90	.28	.66	.04	.42	2.8	5.6	8.4	1.2	4.0
48	.378	.76	.13	.51	.89	.27	.64	.03	.40	2.7	5.4	8.1	0.8	3.5
49	.377	.75	.13	.51	.88	.26	.63	.01	.39	2.6	5.2	7.8	0.4	3.0
10 50	30.375	60.75	91.12	121.50	151.87	182.25	212.62	243.00	273.37	1822.5	3645.0	5467.5	7290.0	9112.5
51	.373	.75	.12	.49	.86	.24	.61	2.99	.36	2.4	4.8	7.2	89.6	2.0
52	.372	.74	.11	.49	.85	.23	.60	.97	.34	2.3	4.6	6.9	9.2	1.5
53	.370	.74	.11	.48	.85	.22	.59	.96	.33	2.2	4.4	6.6	8.7	0.9
54	.368	.74	.10	.47	.84	.21	.58	.94	.31	2.1	4.2	6.3	8.3	10.4
10 55	30.366	60.73	91.10	121.47	151.83	182.20	212.56	242.93	273.30	1822.0	3644.0	5466.0	7287.9	9109.9
56	.365	.73	.09	.46	.82	.19	.55	.92	.28	1.9	3.8	5.7	7.5	9.4
57	.363	.73	.09	.45	.81	.18	.54	.90	.27	1.8	3.6	5.4	7.1	8.9
58	.361	.73	.08	.44	.81	.17	.53	.89	.25	1.7	3.4	5.0	6.7	8.4
59	.360	.72	.08	.44	.80	.16	.52	.87	.24	1.6	3.2	4.7	6.3	7.9
10 60	30.358	60.72	91.07	121.43	151.79	182.15	212.51	242.86	273.22	1821.5	3643.0	5464.4	7285.9	9107.4

Lat.	Latitude 10° to 11°—Meridional arcs						Latitude 10°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 10°30'		Value of 1'	Continuous sums of minutes from latituded 10°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
10 00	30. 723			1843. 35			0 1	1 827. 3	0. 0
1	3	1	30. 72	. 35	1	1 843. 4	0 2	3 654. 7	0. 2
2	3	2	61. 45	. 36	2	5 530. 1	0 3	5 482. 0	0. 4
3	3	3	92. 17	. 36	3	7 373. 4	0 4	7 309. 4	0. 7
4	3	4	122. 89	. 36	4				
10 05	30. 723	5	153. 62	1843. 36	5	9 216. 8	0 5	9 136. 7	1. 2
6	3	6	184. 34	. 36	6	11 060. 1	0 6	10 964. 1	1. 7
7	3	7	215. 06	. 36	7	12 903. 5	0 7	12 791. 4	2. 3
8	3	8	245. 79	. 37	8	14 746. 9	0 8	14 618. 7	3. 0
9	3	9	276. 51	. 37	9	16 590. 2	0 9	16 446. 1	3. 7
10 10	30. 723	10	307. 23	1843. 37	10	18 433. 6	0 10	18 273. 4	4. 6
1	3	1	337. 96	. 37	1	20 277. 0	0 15	27 410. 2	10. 4
2	3	2	368. 68	. 37	2	22 120. 4	0 20	36 546. 9	18. 5
3	3	3	399. 41	. 38	3	23 963. 7	0 25	45 683. 6	28. 8
4	3	4	430. 13	. 38	4	25 807. 1	0 30	54 820. 3	41. 5
10 15	30. 723	15	460. 85	1843. 38	15	27 650. 5	0 35	63 957. 0	56. 5
6	3	6	491. 58	. 38	6	29 493. 9	0 40	73 093. 7	73. 8
7	3	7	522. 30	. 38	7	31 337. 3	0 45	82 230. 4	93. 5
8	3	8	553. 02	. 39	8	33 180. 7	0 50	91 367. 1	115. 4
9	3	9	583. 75	. 39	9	35 024. 0	0 55	100 503. 8	139. 6
10 20	30. 723	20	614. 47	1843. 39	20	36 867. 4	1 00	109 640. 5	166. 1
1	3	1	645. 19	. 39	1	38 710. 8	1 05	118 777. 2	195. 0
2	3	2	675. 92	. 39	2	40 554. 2	1 10	127 913. 9	226. 1
3	3	3	706. 64	. 40	3	42 397. 6	1 15	137 050. 5	259. 6
4	3	4	737. 36	. 40	4	44 241. 0	1 20	146 187. 2	295. 4
10 25	30. 723	25	768. 09	1843. 40	25	46 084. 4	1 25	155 323. 8	333. 4
6	3	6	798. 81	. 40	6	47 927. 8	1 30	164 460. 5	373. 8
7	3	7	829. 53	. 40	7	49 771. 2	1 35	173 597. 1	416. 5
8	3	8	860. 26	. 41	8	51 614. 6	1 40	182 733. 7	461. 5
9	3	9	890. 98	. 41	9	53 458. 0	1 45	191 870. 3	508. 8
10 30	30. 723	30	921. 70	1843. 41	30	55 301. 4	1 50	201 006. 9	558. 4
1	3	1	952. 43	. 41	1	57 144. 8	1 55	210 143. 5	610. 3
2	4	2	983. 15	. 41	2	58 988. 2	2 00	219 280	665
3	4	3	1 013. 87	. 41	3	60 831. 6	2 05	328 917	1 495
4	4	4	1 044. 60	. 42	4	62 675. 0	2 10	438 552	2 658
10 35	30. 724	35	1 075. 32	1843. 42	35	64 518. 5	5 00	548 182	4 154
6	4	6	1 106. 05	. 42	6	66 361. 9	6 00	657 808	5 981
7	4	7	1 136. 77	. 42	7	68 205. 3	7 00	767 427	8 140
8	4	8	1 167. 49	. 42	8	70 048. 7	8 00	877 040	10 632
9	4	9	1 198. 22	. 43	9	71 892. 2	9 00	986 644	13 457
10 40	30. 724	40	1 228. 94	1843. 43	40	73 735. 6	10 00	1 096 239	16 614
1	4	1	1 259. 66	. 43	1	75 579. 0	11 00	1 205 824	20 102
2	4	2	1 290. 39	. 43	2	77 422. 4	12 00	1 315 398	23 922
3	4	3	1 321. 11	. 43	3	79 265. 9	13 00	1 424 960	28 075
4	4	4	1 351. 83	. 44	4	81 109. 3	14 00	1 534 509	32 560
10 45	30. 724	45	1 382. 56	1843. 44	45	82 952. 7	15 00	1 644 044	37 375
6	4	6	1 413. 28	. 44	6	84 796. 2	16 00	1 753 564	42 522
7	4	7	1 444. 00	. 44	7	86 639. 6	17 00	1 863 067	48 002
8	4	8	1 474. 73	. 44	8	88 483. 1	18 00	1 972 554	53 815
9	4	9	1 505. 45	. 45	9	90 326. 5	19 00	2 082 022	59 962
10 50	30. 724	50	1 536. 17	1843. 45	50	92 170. 0	20 00	2 191 471	66 440
1	4	1	1 566. 90	. 45	1	94 013. 4	21 00	2 300 900	73 246
2	4	2	1 597. 62	. 45	2	95 856. 9	22 00	2 410 308	80 385
3	4	3	1 628. 34	. 45	3	97 700. 3	23 00	2 519 694	87 855
4	4	4	1 659. 07	. 46	4	99 543. 8	24 00	2 629 057	95 658
10 55	30. 724	55	1 689. 79	1843. 46	55	101 387. 2	25 00	2 738 395	103 792
6	4	6	1 720. 51	. 46	6	103 230. 7	26 00	2 847 709	112 256
7	4	7	1 751. 24	. 46	7	105 074. 1	27 00	2 956 996	121 053
8	4	8	1 781. 96	. 46	8	106 917. 6	28 00	3 066 256	130 180
9	4	9	1 812. 69	. 47	9	108 761. 1	29 00	3 175 488	139 639
10 60	30. 724	60	1 843. 41	1843. 47	60	110 604. 5	30 00	3 284 690	149 428

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 11° to 12°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
11 00	30.358	60.72	91.07	121.43	151.79	182.15	212.51	242.86	273.22	1821.5	3643.0	5464.4	7285.9	9107.4
1	.356	.72	.07	.42	.78	.14	.50	.85	.21	1.4	2.8	4.1	5.5	6.9
2	.355	.71	.06	.42	.77	.13	.49	.83	.19	1.3	2.6	3.8	5.1	6.4
3	.353	.71	.06	.41	.76	.12	.47	.82	.18	1.2	2.3	3.5	4.7	5.8
4	.351	.70	.05	.40	.75	.11	.46	.81	.16	1.1	2.1	3.2	4.3	5.3
11 05	30.349	60.70	91.05	121.39	151.74	182.10	212.45	242.79	273.15	1821.0	3641.9	5462.9	7283.9	9104.8
6	.348	.70	.04	.39	.74	.09	.44	.78	.13	0.9	1.7	2.6	3.5	4.3
7	.346	.69	.04	.38	.73	.08	.43	.77	.12	0.8	1.5	2.3	3.1	3.8
8	.344	.69	.03	.37	.72	.07	.41	.76	.10	0.7	1.3	2.0	2.6	3.3
9	.343	.68	.03	.37	.71	.06	.40	.74	.09	0.6	1.1	1.7	2.2	2.8
11 10	30.341	60.68	91.02	121.36	151.70	182.05	212.39	242.73	273.07	1820.5	3640.9	5461.4	7281.8	9102.3
11	.339	.68	.02	.35	.69	.04	.38	.72	.05	0.4	0.7	1.1	1.4	1.8
12	.337	.67	.01	.35	.68	.03	.36	.70	.04	0.3	0.5	0.8	1.0	1.2
13	.336	.67	.01	.34	.68	.01	.35	.69	.02	0.1	0.3	0.4	0.5	0.7
14	.334	.67	.00	.33	.67	2.00	.34	.67	3.01	20.0	40.1	60.1	80.1	100.1
11 15	30.332	60.66	91.00	121.32	151.66	181.99	212.32	242.66	272.99	1819.9	3639.9	5459.8	7279.7	9099.6
16	.330	.66	0.99	.32	.65	.98	.31	.65	.97	9.8	9.7	9.5	9.3	9.1
17	.329	.66	.99	.31	.64	.97	.30	.63	.96	9.7	9.5	9.2	8.9	8.6
18	.327	.66	.98	.30	.64	.96	.29	.62	.94	9.6	9.2	8.8	8.4	8.0
19	.325	.65	.98	.30	.63	.95	.27	.60	.93	9.5	9.0	8.5	8.0	7.5
11 20	30.323	60.65	90.97	121.29	151.62	181.94	212.26	242.59	272.91	1819.4	3638.8	5458.2	7277.6	9097.0
21	.322	.65	.97	.28	.61	.93	.25	.58	.89	9.3	8.6	7.9	7.2	6.5
22	.320	.64	.96	.28	.60	.92	.24	.56	.88	9.2	8.4	7.6	6.8	6.0
23	.318	.64	.95	.27	.59	.91	.22	.55	.86	9.1	8.1	7.2	6.3	5.4
24	.316	.63	.95	.26	.58	.90	.21	.53	.85	9.0	7.9	6.9	5.9	4.9
11 25	30.315	60.63	90.94	121.25	151.57	181.89	212.20	242.52	272.83	1818.9	3637.7	5456.6	7275.5	9094.4
26	.313	.63	.94	.25	.57	.88	.19	.51	.81	8.3	7.5	6.3	5.1	3.9
27	.311	.62	.93	.24	.56	.87	.18	.49	.80	8.7	7.3	6.0	4.7	3.3
28	.309	.62	.93	.23	.55	.85	.16	.48	.78	8.5	7.1	5.6	4.2	2.8
29	.307	.61	.92	.23	.54	.84	.15	.46	.77	8.4	6.9	5.3	3.8	2.2
11 30	30.306	60.61	90.92	121.22	151.53	181.83	212.14	242.45	272.75	1818.3	3636.7	5455.0	7273.4	9091.7
31	.304	.61	.91	.21	.52	.82	.13	.44	.73	8.2	6.5	4.7	3.0	1.2
32	.302	.60	.91	.21	.51	.81	.11	.42	.72	8.1	6.3	4.4	2.5	0.6
33	.300	.60	.90	.20	.50	.80	.10	.41	.70	8.0	6.0	4.0	2.1	90.1
34	.298	.60	.90	.19	.49	.79	.09	.39	.69	7.9	5.8	3.7	1.6	89.5
11 35	30.297	60.59	90.89	121.18	151.48	181.78	212.07	242.38	272.67	1817.8	3635.6	5453.4	7271.2	9089.0
36	.295	.59	.88	.18	.48	.77	.06	.36	.65	7.7	5.4	3.1	0.8	8.5
37	.293	.59	.88	.17	.47	.76	.05	.35	.64	7.6	5.2	2.8	70.4	7.9
38	.291	.59	.87	.16	.46	.75	.04	.33	.62	7.5	4.9	2.4	69.9	7.4
39	.289	.58	.87	.16	.45	.74	.02	.32	.61	7.4	4.7	2.1	9.5	6.8
11 40	30.288	60.58	90.86	121.15	151.44	181.73	212.01	242.30	272.59	1817.3	3634.5	5451.8	7269.1	9086.3
41	.286	.58	.86	.14	.43	.72	2.00	.29	.57	7.2	4.3	1.5	8.7	5.8
42	.284	.57	.85	.14	.42	.71	1.99	.27	.56	7.1	4.1	1.2	8.2	5.2
43	.282	.57	.85	.13	.41	.69	.97	.26	.54	6.9	3.8	0.8	7.8	4.7
44	.280	.56	.84	.12	.40	.68	.96	.24	.53	6.8	3.6	0.5	7.3	4.1
11 45	30.279	60.56	90.84	121.11	151.39	181.67	211.95	242.23	272.51	1816.7	3633.4	5450.2	7266.9	9083.6
46	.277	.56	.83	.11	.39	.66	.94	.22	.49	6.6	3.2	49.9	6.5	3.1
47	.275	.55	.83	.10	.38	.65	.93	.20	.48	6.5	3.0	9.5	6.0	2.5
48	.273	.55	.82	.09	.37	.64	.91	.19	.46	6.4	2.8	9.2	5.6	2.0
49	.271	.54	.81	.09	.36	.63	.90	.17	.45	6.3	2.6	8.8	5.1	1.4
11 50	30.270	60.54	90.81	121.08	151.35	181.62	211.89	242.16	272.43	1816.2	3632.4	5448.5	7264.7	9080.9
51	.268	.54	.80	.07	.34	.61	.88	.15	.41	6.1	2.2	8.2	4.3	80.3
52	.266	.53	.80	.06	.33	.60	.86	.13	.40	6.0	1.9	7.9	3.8	79.8
53	.264	.53	.79	.06	.32	.58	.85	.12	.38	5.8	1.7	7.5	3.4	9.2
54	.262	.52	.79	.05	.31	.57	.84	.10	.36	5.7	1.4	7.2	2.9	8.7
11 55	30.260	60.52	90.78	121.04	151.30	181.56	211.82	242.09	272.34	1815.6	3631.2	5446.9	7262.5	9078.1
56	.258	.52	.77	.03	.30	.55	.81	.07	.33	5.5	1.0	6.6	2.1	7.5
57	.257	.51	.77	.02	.29	.54	.80	.06	.31	5.4	0.8	6.2	1.6	7.0
58	.255	.51	.76	.02	.28	.53	.79	.04	.29	5.3	0.5	5.9	1.2	6.4
59	.253	.50	.76	.01	.27	.52	.77	.03	.28	5.2	0.3	5.5	0.7	5.9
11 60	30.251	60.50	90.75	121.00	151.26	181.51	211.76	242.01	272.26	1815.1	3630.1	5445.2	7260.3	9075.3

TERRESTRIAL ARCS

Lat.	Latitude 11° to 12°—Meridional arcs						Latitude 11°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 11°30'		Value of 1'		Continuous sums of minutes from latitude 11°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	°	'	Meters	Meters	
11 00	30.724			1843.47			0	1	1 821.5	0.1	
1	4	1	30.73	.47	1	1 843.5	0	2	3 643.0	0.2	
2	5	2	61.45	.47	2	3 686.9	0	3	5 464.4	0.5	
3	5	3	92.18	.47	3	5 530.4	0	4	7 285.9	0.8	
4	5	4	122.90	.48	4	7 373.9					
11 05	30.725			1843.48			0	5	9 107.4	1.3	
6	5	6	153.63	.48	6	11 060.8	0	6	10 928.9	1.8	
7	5	7	215.08	.48	7	12 904.3	0	7	12 750.4	2.5	
8	5	8	245.80	.49	8	14 747.8	0	8	14 571.8	3.2	
9	5	9	276.53	.49	9	16 591.3	0	9	16 393.3	4.1	
11 10	30.725			1843.49			0	10	18 214.8	5.1	
11	5	10	307.26	.49	10	18 434.8	0	15	27 322.2	11.4	
12	5	1	337.98	.49	1	20 278.3	0	20	36 429.6	20.2	
13	5	2	368.71	.49	2	22 121.8	0	25	45 537.0	31.6	
14	5	3	399.43	.50	3	23 965.3	0	30	54 644.4	45.5	
	5	4	430.16	.50	4	25 808.8					
11 15	30.725			1843.50			0	35	63 751.8	61.9	
16	5	6	460.88	.50	6	27 652.3	0	40	72 859.2	80.9	
17	5	7	491.61	.50	7	29 495.8	0	45	81 966.5	102.4	
18	5	8	522.33	.50	8	31 339.3	0	50	91 073.9	126.4	
19	5	9	553.06	.51	9	33 182.8	0	55	100 181.3	152.9	
	5		583.78	.51		35 026.3					
11 20	30.725			1843.51			1	00	109 288.7	182.0	
21	5	1	614.51	.51	1	36 869.8	1	05	118 396.0	213.6	
22	5	2	645.24	.51	2	38 713.3	1	10	127 503.4	247.7	
23	5	3	675.96	.51	3	40 556.8	1	15	136 610.7	284.3	
24	5	4	706.69	.52	4	42 400.3	1	20	145 718.0	323.5	
	5		737.41	.52		44 243.8					
11 25	30.725			1843.52			1	25	154 825.3	365.2	
26	5	6	768.14	.52	6	46 087.3	1	30	163 932.7	409.4	
27	5	7	798.86	.52	7	47 930.9	1	35	173 039.9	456.2	
28	5	8	829.59	.52	8	49 774.4	1	40	182 147.2	505.5	
29	5	9	860.31	.53	9	51 617.9	1	45	191 254.5	557.3	
	5		891.04	.53		53 461.4					
11 30	30.726			1843.53			1	50	200 361.7	611.6	
31	6	1	921.77	.53	1	55 305.0	1	55	209 469.0	668.5	
32	6	2	952.49	.53	2	57 148.5	2	00	218 576	728	
33	6	3	983.22	.54	3	58 992.0	3	00	327 861	1 638	
34	6	4	1 013.94	.54	4	60 835.6	4	00	437 143	2 911	
	6		1 044.67	.54		62 679.1					
11 35	30.726			1843.54			5	00	546 410	4 549	
36	6	6	1 075.39	.54	6	64 522.7	6	00	655 690	6 551	
37	6	7	1 106.12	.54	7	66 366.2	7	00	764 953	8 916	
38	6	8	1 136.84	.55	8	68 209.3	8	00	874 208	11 646	
39	6	9	1 167.57	.55	9	70 053.3	9	00	983 453	14 739	
	6		1 198.30	.55		71 896.9					
11 40	30.726			1843.55			10	00	1 092 687	18 196	
41	6	1	1 229.02	.55	1	73 740.4	11	00	1 201 909	22 016	
42	6	2	1 259.75	.55	2	75 584.0	12	00	1 311 117	26 201	
43	6	3	1 290.47	.56	3	77 427.5	13	00	1 420 311	30 749	
44	6	4	1 321.20	.56	4	79 271.1	14	00	1 529 490	35 663	
	6		1 351.92	.56		81 114.6					
11 45	30.726			1843.56			15	00	1 638 652	40 937	
46	6	6	1 382.65	.56	6	82 958.2	16	00	1 747 795	46 577	
47	6	7	1 413.37	.57	7	84 801.8	17	00	1 856 919	52 579	
48	6	8	1 444.10	.57	8	86 645.3	18	00	1 966 022	58 944	
49	6	9	1 474.82	.57	9	88 488.9	19	00	2 075 104	65 674	
	6		1 505.55	.57		90 332.5					
11 50	30.726			1843.57			20	00	2 184 162	72 764	
51	6	1	1 536.28	.57	1	92 176.1	21	00	2 293 196	80 221	
52	6	2	1 567.00	.58	2	94 019.6	22	00	2 402 205	88 039	
53	6	3	1 597.73	.58	3	95 863.2	23	00	2 511 187	96 221	
54	6	4	1 628.45	.58	4	97 706.8	24	00	2 620 142	104 765	
	6		1 659.18	.58		99 550.4					
11 55	30.726			1843.58			25	00	2 729 067	113 671	
56	6	6	1 689.90	.58	6	101 394.0	26	00	2 837 962	122 940	
57	6	7	1 720.63	.59	7	103 237.6	27	00	2 946 825	132 573	
58	7	8	1 751.35	.59	8	105 081.1	28	00	3 055 656	142 569	
59	7	9	1 782.08	.59	9	106 924.7	29	00	3 164 453	152 926	
60	7		1 812.81	.59		108 768.3	30	00	3 273 215	163 645	
	7		1 843.53	.59		110 611.9					

Latitude 12° to 13°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
12 00	30.251	60.50	90.75	121.00	151.26	181.51	211.76	242.01	272.26	1815.1	3630.1	5445.2	7260.3	9075.3
1	.249	.50	.75	120.99	.25	.50	.75	2.00	.24	5.0	29.9	4.9	59.8	4.7
2	.247	.49	.74	.99	.24	.49	.73	1.98	.23	4.9	9.7	4.5	9.4	4.2
3	.245	.49	.74	.98	.23	.47	.72	.97	.21	4.7	9.4	4.2	8.9	3.6
4	.244	.48	.73	.97	.22	.46	.71	.95	.19	4.6	9.2	3.8	8.5	3.1
12 05	30.242	60.48	90.73	120.96	151.21	181.45	211.69	241.93	272.17	1814.5	3629.0	5443.5	7258.0	9072.5
6	.240	.48	.72	.96	.20	.44	.68	.92	.16	4.4	8.8	3.2	7.6	1.9
7	.238	.47	.71	.95	.19	.43	.67	.90	.14	4.3	8.6	2.8	7.1	1.4
8	.236	.47	.71	.94	.18	.41	.66	.89	.12	4.1	8.3	2.5	6.7	0.8
9	.234	.46	.70	.94	.17	.40	.64	.87	.11	4.0	8.1	2.1	6.2	70.3
12 10	30.232	60.46	90.70	120.93	151.16	181.39	211.63	241.86	272.09	1813.9	3627.9	5441.8	7255.8	9069.7
11	.230	.46	.69	.92	.15	.38	.62	.85	.07	3.8	7.7	1.5	5.3	9.1
12	.229	.45	.69	.91	.14	.37	.60	.83	.06	3.7	7.4	1.1	4.9	8.6
13	.227	.45	.68	.91	.13	.36	.59	.82	.04	3.6	7.2	0.7	4.4	8.0
14	.225	.45	.68	.90	.12	.35	.57	.80	.02	3.5	6.9	0.3	4.0	7.5
12 15	30.223	60.44	90.67	120.89	151.12	181.34	211.56	241.78	272.00	1813.4	3626.7	5440.1	7253.5	9066.9
16	.221	.44	.66	.88	.11	.33	.55	.77	1.99	3.3	6.5	39.8	3.0	6.3
17	.219	.44	.66	.87	.10	.32	.53	.75	.97	3.2	6.3	9.4	2.6	5.7
18	.217	.44	.65	.87	.09	.30	.52	.74	.95	3.0	6.0	9.1	2.1	5.2
19	.215	.43	.65	.86	.08	.29	.50	.72	.94	2.9	5.8	8.7	1.7	4.6
12 20	30.213	60.43	90.64	120.85	151.07	181.28	211.49	241.71	271.92	1812.8	3625.6	5438.4	7251.2	9064.0
21	.211	.43	.63	.84	.06	.27	.48	.69	.90	2.7	5.4	8.1	0.7	3.4
22	.209	.42	.63	.84	.05	.26	.46	.68	.89	2.6	5.2	7.4	50.3	2.8
23	.208	.42	.62	.83	.04	.24	.45	.66	.87	2.4	4.9	7.7	49.8	2.3
24	.206	.41	.62	.82	.03	.23	.44	.65	.85	2.3	4.7	7.0	9.4	1.7
12 25	30.204	60.41	90.61	120.81	151.02	181.22	211.42	241.63	271.83	1812.2	3624.5	5436.7	7248.9	9061.1
26	.202	.41	.60	.81	.01	.21	.41	.61	.82	2.1	4.3	6.4	8.4	0.5
27	.200	.40	.60	.80	1.00	.20	.40	.60	.80	2.0	4.0	6.0	8.0	60.0
28	.198	.40	.59	.79	0.99	.19	.39	.58	.78	1.9	3.8	5.7	7.5	59.4
29	.196	.39	.59	.79	.98	.18	.37	.57	.77	1.8	3.5	5.3	7.1	8.9
12 30	30.194	60.39	90.58	120.78	150.97	181.17	211.36	241.55	271.75	1811.7	3623.3	5435.0	7246.6	9058.3
31	.192	.39	.58	.77	.96	.16	.35	.54	.73	1.6	3.1	4.6	6.1	7.7
32	.190	.38	.57	.76	.95	.15	.33	.52	.71	1.5	2.8	4.3	5.7	7.1
33	.188	.38	.56	.76	.94	.13	.32	.51	.70	1.3	2.6	3.9	5.2	6.5
34	.186	.37	.56	.75	.93	.12	.30	.49	.68	1.2	2.3	3.6	4.8	5.9
12 35	30.184	60.37	90.55	120.74	150.92	181.11	211.29	241.47	271.66	1811.1	3622.1	5433.2	7244.3	9055.3
36	.182	.37	.55	.73	.91	.10	.28	.46	.64	1.0	1.9	2.9	3.8	4.7
37	.180	.36	.54	.72	.90	.09	.26	.44	.62	0.9	1.7	2.5	3.3	4.1
38	.179	.36	.54	.72	.89	.07	.25	.43	.61	0.7	1.4	2.2	2.9	3.6
39	.177	.35	.53	.71	.88	.06	.23	.41	.59	0.6	1.2	1.8	2.4	3.0
12 40	30.175	60.35	90.52	120.70	150.87	181.05	211.22	241.40	271.57	1810.5	3621.0	5431.5	7241.9	9052.4
41	.173	.35	.52	.69	.86	.04	.21	.38	.55	0.4	0.8	1.1	1.4	1.8
42	.171	.34	.51	.68	.85	.03	.19	.37	.54	0.3	0.5	0.8	1.0	1.2
43	.169	.34	.51	.68	.84	.01	.18	.35	.52	0.1	0.3	0.4	0.5	0.7
44	.167	.33	.50	.67	.83	1.00	.17	.34	.50	10.0	20.0	30.1	40.1	50.1
12 45	30.165	60.33	90.50	120.66	150.83	180.99	211.15	241.32	271.48	1809.9	3619.8	5429.7	7239.6	9049.5
46	.163	.33	.49	.65	.82	.98	.14	.30	.47	9.8	9.6	9.3	9.1	8.9
47	.161	.32	.48	.64	.81	.97	.13	.29	.45	9.7	9.3	9.0	8.6	8.3
48	.159	.32	.48	.64	.80	.95	.12	.27	.43	9.5	9.1	8.6	8.2	7.7
49	.157	.31	.47	.63	.79	.94	.10	.26	.42	9.4	8.8	8.3	7.7	7.1
12 50	30.155	60.31	90.47	120.62	150.78	180.93	211.09	241.24	271.40	1809.3	3618.6	5427.9	7237.2	9046.5
51	.153	.31	.46	.61	.77	.92	.08	.22	.38	9.2	8.4	7.5	6.7	5.9
52	.151	.30	.45	.60	.76	.91	.06	.21	.36	9.1	8.1	7.2	6.2	5.3
53	.149	.30	.45	.60	.75	.89	.05	.19	.35	8.9	7.9	6.8	5.8	4.7
54	.147	.29	.44	.59	.74	.88	.03	.18	.33	8.8	7.6	6.5	5.3	4.1
12 55	30.145	60.29	90.44	120.58	150.73	180.87	211.02	241.16	271.31	1808.7	3617.4	5426.1	7234.8	9043.5
56	.143	.29	.43	.57	.72	.86	1.01	.14	.29	8.6	7.2	5.7	4.3	2.9
57	.141	.28	.42	.56	.71	.85	0.99	.13	.27	8.5	6.9	5.4	3.8	2.3
58	.139	.28	.42	.56	.70	.83	.98	.11	.26	8.3	6.7	5.0	3.4	1.7
59	.137	.27	.41	.55	.69	.82	.96	.10	.24	8.2	6.4	4.7	2.9	1.1
12 60	30.135	60.27	90.41	120.54	150.68	180.81	210.95	241.08	271.22	1808.1	3616.2	5424.3	7232.4	9040.5

Lat.	Latitude 12° to 13°—Meridional arcs						Latitude 12°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 12°30'		Value of 1'	Continuous sums of minutes from latitude 12°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
12 00	30.727			1843.60			0 1	1 815.1	0.1
1	7	1	30.73	.60	1	1 843.6	0 2	3 630.1	0.2
2	7	2	61.46	.60	2	3 687.2	0 3	5 445.2	0.5
3	7	3	92.18	.60	3	5 530.8	0 4	7 260.3	0.9
4	7	4	122.91	.60	4	7 374.4			
12 05	30.727	5	153.64	1843.61	5	9 218.0	0 5	9 075.3	1.4
6	7	6	184.37	.61	6	11 061.6	0 6	10 890.4	2.0
7	7	7	215.09	.61	7	12 905.2	0 7	12 705.5	2.7
8	7	8	245.82	.61	8	14 748.8	0 8	14 520.5	3.5
9	7	9	276.55	.62	9	16 592.5	0 9	16 335.6	4.5
12 10	30.727	10	307.23	1843.62	10	18 436.1	0 10	18 150.7	5.5
11	7	1	338.01	.62	1	20 279.7	0 15	27 226.0	12.4
12	7	2	368.73	.62	2	22 123.3	0 20	36 301.3	22.0
13	7	3	399.46	.62	3	23 966.9	0 25	45 376.7	34.3
14	7	4	430.19	.63	4	25 810.6	0 30	54 452.0	49.4
12 15	30.727	15	460.92	1843.63	15	27 654.2	0 35	63 527.3	67.2
16	7	6	491.64	.63	6	29 497.8	0 40	72 602.6	87.8
17	7	7	522.37	.63	7	31 341.5	0 45	81 677.9	111.1
18	7	8	553.10	.64	8	33 185.1	0 50	90 753.2	137.2
19	7	9	583.83	.64	9	35 028.7	0 55	99 828.5	166.0
12 20	30.727	20	614.55	1843.64	20	36 872.4	1 00	108 903.8	197.6
21	7	1	645.28	.64	1	38 716.0	1 05	117 979.0	231.9
22	7	2	676.01	.65	2	40 559.7	1 10	127 054.3	268.9
23	7	3	706.74	.65	3	42 403.3	1 15	136 129.6	308.7
24	7	4	737.47	.65	4	44 247.0	1 20	145 204.8	351.3
12 25	30.728	25	768.19	1843.65	25	46 090.6	1 25	154 280.0	396.6
26	8	6	798.92	.65	6	47 934.3	1 30	163 355.2	444.6
27	8	7	829.65	.66	7	49 777.9	1 35	172 430.4	495.4
28	8	8	860.38	.66	8	51 621.6	1 40	181 505.6	548.9
29	8	9	891.10	.66	9	53 465.3	1 45	190 580.7	605.1
12 30	30.728	30	921.83	1843.66	30	55 308.9	1 50	199 655.9	664.1
31	8	1	952.56	.67	1	57 152.6	1 55	208 731.0	725.9
32	8	2	983.29	.67	2	58 996.3	2 00	217 806	790
33	8	3	1 014.02	.67	3	60 839.9	2 05	326 706	1 778
34	8	4	1 044.74	.67	4	62 683.6	2 10	435 601	3 161
12 35	30.728	35	1 075.47	1843.67	35	64 527.2	5 00	544 490	4 940
36	8	6	1 106.20	.68	6	66 370.9	6 00	653 372	7 113
37	8	7	1 136.93	.68	7	68 214.6	7 00	762 246	9 682
38	8	8	1 167.65	.68	8	70 058.3	8 00	871 110	12 646
39	8	9	1 198.38	.68	9	71 902.0	9 00	979 962	16 004
12 40	30.728	40	1 229.11	1843.69	40	73 745.6	10 00	1 088 801	19 757
41	8	1	1 259.84	.69	1	75 589.3	11 00	1 197 626	23 905
42	8	2	1 290.56	.69	2	77 433.0	12 00	1 306 435	28 449
43	8	3	1 321.29	.69	3	79 276.7	13 00	1 415 227	33 387
44	8	4	1 352.02	.70	4	81 120.4	14 00	1 524 000	38 719
12 45	30.728	45	1 382.75	1843.70	45	82 964.1	15 00	1 632 753	44 447
46	8	6	1 413.48	.70	6	84 807.8	16 00	1 741 485	50 569
47	8	7	1 444.20	.70	7	86 651.5	17 00	1 850 194	57 085
48	8	8	1 474.93	.70	8	88 495.2	18 00	1 958 879	63 997
49	8	9	1 505.66	.71	9	90 338.9	19 00	2 067 537	71 303
12 50	30.728	50	1 536.39	1843.71	50	92 182.6	20 00	2 176 168	79 008
51	9	1	1 567.11	.71	1	94 026.3	21 00	2 284 771	87 096
52	9	2	1 597.84	.71	2	95 870.1	22 00	2 393 344	95 584
53	9	3	1 628.57	.72	3	97 713.8	23 00	2 501 885	104 466
54	9	4	1 659.30	.72	4	99 557.5	24 00	2 610 394	113 741
12 55	30.729	55	1 690.03	1843.72	55	101 401.2	25 00	2 718 867	123 410
56	9	6	1 720.75	.72	6	103 244.9	26 00	2 827 305	133 473
57	9	7	1 751.48	.73	7	105 088.7	27 00	2 935 706	143 930
58	9	8	1 782.21	.73	8	106 932.4	28 00	3 044 068	154 780
59	9	9	1 812.94	.73	9	108 776.1	29 00	3 152 390	166 023
12 60	30.729	60	1 843.66	1843.73	60	110 619.8	30 00	3 260 671	177 658

Latitude 13° to 14°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
13 00	30.135	60.27	90.41	120.54	150.68	180.81	210.95	241.08	271.22	1808.1	3616.2	5424.3	7232.4	9040.5
1	.133	.27	.40	.53	.67	.80	.94	.06	.20	8.0	6.0	3.9	1.9	39.9
2	.131	.26	.39	.52	.66	.79	.92	.05	.18	7.9	5.7	3.6	1.4	9.3
3	.129	.26	.39	.52	.65	.77	.91	.03	.16	7.7	5.5	3.2	1.0	8.7
4	.127	.25	.38	.51	.64	.76	.89	.02	.14	7.6	5.2	2.9	0.5	8.1
13 05	30.125	60.25	90.37	120.50	150.62	180.75	210.88	241.00	271.12	1807.5	3615.0	5422.5	7230.0	9037.5
6	.123	.25	.37	.49	.61	.74	.86	0.98	.11	7.4	4.8	2.1	29.5	6.9
7	.121	.24	.36	.48	.60	.73	.85	.97	.09	7.3	4.5	1.8	9.0	6.3
8	.119	.24	.36	.48	.59	.71	.83	.95	.07	7.1	4.3	1.4	8.6	5.6
9	.117	.23	.35	.47	.58	.70	.82	.94	.05	7.0	4.0	1.1	8.1	5.0
13 10	30.115	60.23	90.34	120.46	150.57	180.69	210.80	240.92	271.03	1806.9	3613.8	5420.7	7227.6	9034.4
11	.113	.23	.34	.45	.56	.68	.79	.90	1.01	6.8	3.5	30.3	7.1	3.8
12	.111	.22	.33	.44	.55	.67	.77	.89	0.99	6.7	3.3	19.9	6.6	3.2
13	.109	.22	.33	.44	.54	.65	.76	.87	.98	6.5	3.0	9.6	6.1	2.6
14	.107	.21	.32	.43	.53	.64	.74	.85	.96	6.4	2.8	9.2	5.6	2.0
13 15	30.105	60.21	90.31	120.42	150.52	180.63	210.73	240.84	270.94	1806.3	3612.5	5418.8	7225.1	9031.4
16	.103	.21	.31	.41	.51	.62	.72	.82	.92	6.2	2.3	8.4	4.6	0.8
17	.101	.20	.30	.40	.50	.61	.70	.80	.90	6.1	2.0	8.1	4.1	30.2
18	.098	.20	.29	.39	.49	.59	.69	.78	.89	5.9	1.8	7.7	3.6	29.5
19	.096	.19	.29	.38	.48	.58	.67	.77	.87	5.8	1.5	7.4	3.1	8.9
13 20	30.094	60.19	90.28	120.38	150.47	180.57	210.66	240.75	270.85	1805.7	3611.3	5417.0	7222.6	9028.3
21	.092	.19	.28	.37	.46	.56	.65	.73	.83	5.6	1.1	6.6	2.1	7.7
22	.090	.18	.27	.36	.45	.54	.63	.72	.81	5.4	0.8	6.2	1.6	7.1
23	.088	.18	.26	.35	.44	.53	.62	.70	.79	5.3	0.6	5.9	1.1	6.4
24	.086	.17	.26	.34	.43	.51	.60	.69	.77	5.1	0.3	5.5	0.6	5.8
13 25	30.084	60.17	90.25	120.33	150.42	180.50	210.59	240.67	270.76	1805.0	3610.1	5415.1	7220.1	9025.2
26	.082	.17	.25	.33	.41	.49	.58	.65	.74	4.9	09.8	4.7	19.6	4.6
27	.080	.16	.24	.32	.40	.48	.56	.64	.72	4.8	9.6	4.3	9.1	4.0
28	.078	.16	.23	.31	.39	.46	.55	.62	.70	4.6	9.3	4.0	8.7	3.3
29	.076	.15	.23	.30	.38	.45	.53	.61	.68	4.5	9.1	3.6	8.2	2.7
13 30	30.074	60.15	90.22	120.29	150.37	180.44	210.52	240.59	270.66	1804.4	3608.8	5413.2	7217.7	9022.1
31	.072	.15	.21	.28	.36	.43	.51	.57	.64	4.3	8.6	2.8	7.2	1.5
32	.069	.14	.21	.27	.35	.42	.49	.56	.62	4.2	8.3	2.5	6.7	0.8
33	.067	.14	.20	.27	.34	.40	.48	.54	.60	4.0	8.1	2.1	6.1	20.2
34	.065	.13	.20	.26	.33	.39	.46	.52	.58	3.9	7.8	1.8	5.6	19.5
13 35	30.063	60.13	90.19	120.25	150.31	180.38	210.45	240.51	270.57	1803.8	3607.6	5411.4	7215.1	9018.9
36	.061	.13	.19	.24	.30	.37	.43	.49	.55	3.7	7.3	1.0	4.6	8.3
37	.059	.12	.18	.23	.29	.36	.42	.47	.53	3.6	7.1	0.6	4.1	7.7
38	.057	.12	.17	.23	.28	.34	.40	.45	.51	3.4	6.8	10.3	3.6	7.0
39	.055	.11	.16	.22	.27	.33	.39	.44	.49	3.3	6.6	09.9	3.1	6.4
13 40	30.053	60.11	90.16	120.21	150.26	180.32	210.37	240.42	270.47	1803.2	3606.3	5409.5	7212.6	9015.8
41	.051	.11	.15	.20	.25	.31	.36	.40	.45	3.1	6.0	9.1	2.1	5.2
42	.048	.10	.15	.19	.24	.29	.34	.39	.43	2.9	5.8	8.7	1.6	4.5
43	.046	.10	.14	.18	.23	.28	.33	.37	.41	2.8	5.5	8.4	1.1	3.9
44	.044	.09	.13	.17	.22	.26	.31	.35	.39	2.6	5.3	8.0	0.6	3.2
13 45	30.042	60.09	90.13	120.16	150.21	180.25	210.30	240.33	270.38	1802.5	3605.0	5407.6	7210.1	9012.6
46	.040	.08	.12	.16	.20	.24	.28	.32	.36	2.4	4.8	7.2	09.6	2.0
47	.038	.08	.11	.15	.19	.23	.27	.30	.34	2.3	4.5	6.8	9.1	1.3
48	.036	.07	.11	.14	.18	.21	.25	.28	.32	2.1	4.3	6.4	8.6	0.7
49	.033	.07	.10	.13	.17	.20	.24	.27	.30	2.0	4.0	6.0	8.1	10.0
13 50	30.031	60.06	90.09	120.12	150.16	180.19	210.22	240.25	270.28	1801.9	3603.8	5405.6	7207.5	9009.4
51	.029	.06	.09	.11	.15	.18	.21	.23	.26	1.8	3.5	5.2	7.0	8.8
52	.027	.05	.08	.10	.14	.16	.19	.22	.24	1.6	3.3	4.8	6.5	8.1
53	.025	.05	.07	.10	.13	.15	.18	.20	.22	1.5	3.0	4.5	5.9	7.5
54	.023	.04	.07	.09	.12	.13	.16	.18	.20	1.3	2.8	4.1	5.4	6.8
13 55	30.021	60.04	90.06	120.08	150.10	180.12	210.15	240.16	270.19	1801.2	3602.5	5403.7	7204.9	9006.2
56	.019	.04	.06	.07	.09	.11	.13	.15	.17	1.1	2.2	3.3	4.4	5.6
57	.016	.03	.05	.06	.08	.10	.12	.13	.15	1.0	2.0	2.9	3.9	4.9
58	.014	.03	.04	.06	.07	.08	.10	.11	.13	0.8	1.7	2.6	3.4	4.3
59	.012	.02	.04	.05	.06	.07	.09	.10	.11	0.7	1.5	2.2	2.9	3.6
13 60	30.010	60.02	90.03	120.04	150.05	180.06	210.07	240.08	270.09	1800.6	3601.2	5401.8	7202.4	9003.0

Lat.	Latitude 13° to 14°—Meridional arcs					Latitude 13°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 13°30'		Value of 1'	Continuous sums of minutes from latitude 13°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
13 00	30.729			1843.73			0 1	1 808.1	0.1
1	9	1	30.73	.73	1	1 843.7	0 2	3 616.2	0.2
2	9	2	61.46	.74	2	3 687.5	0 3	5 424.3	0.5
3	9	3	92.19	.74	3	5 531.2	0 4	7 232.4	0.9
4	9	4	122.92	.74	4	7 375.0			
13 05	30.729	5	153.65	1843.74	5	9 218.7	0 5	9 040.5	1.5
6	9	6	184.38	.75	6	11 062.4	0 6	10 848.6	2.1
7	9	7	215.11	.75	7	12 906.2	0 7	12 656.7	2.9
8	9	8	245.84	.75	8	14 750.0	0 8	14 464.8	3.8
9	9	9	276.57	.75	9	16 593.7	0 9	16 272.9	4.8
13 10	30.729	10	307.30	1843.76	10	18 437.5	0 10	18 081.0	5.9
11	9	1	338.03	.76	1	20 281.2	0 15	27 121.5	13.3
12	9	2	368.76	.76	2	22 125.0	0 20	36 162.0	23.7
13	9	3	399.49	.76	3	23 968.8	0 25	45 202.5	37.0
14	9	4	430.22	.77	4	25 812.5	0 30	54 243.0	53.2
13 15	30.729	15	460.95	1843.77	15	27 656.3	0 35	63 283.5	72.5
16	30	6	491.68	.77	6	29 500.1	0 40	72 324.0	94.7
17	0	7	522.41	.77	7	31 343.8	0 45	81 364.5	119.9
18	0	8	553.14	.78	8	33 187.6	0 50	90 405.0	148.0
19	0	9	583.87	.78	9	35 031.4	0 55	99 445.4	179.1
13 20	30.730	20	614.60	1843.78	20	36 875.2	1 00	108 485.9	213.0
21	0	1	645.33	.78	1	38 719.0	1 05	117 526.3	249.9
22	0	2	676.06	.79	2	40 562.7	1 10	126 566.7	289.8
23	0	3	706.79	.79	3	42 406.5	1 15	135 607.1	332.7
24	0	4	737.52	.79	4	44 250.3	1 20	144 647.5	378.6
13 25	30.730	25	768.25	1843.79	25	46 094.1	1 25	153 687.9	427.4
26	0	6	798.98	.80	6	47 937.9	1 30	162 728.3	479.1
27	0	7	829.71	.80	7	49 781.7	1 35	171 768.6	533.8
28	0	8	860.44	.80	8	51 625.5	1 40	180 809.0	591.6
29	0	9	891.17	.80	9	53 469.3	1 45	189 849.2	652.1
13 30	30.730	30	921.90	1843.81	30	55 313.1	1 50	198 889.5	715.7
31	0	1	952.63	.81	1	57 156.9	1 55	207 929.6	782.3
32	0	2	983.36	.81	2	59 000.8	2 00	216 970	852
33	0	3	1 014.09	.81	3	60 844.6	2 05	325 451	1 917
34	0	4	1 044.82	.82	4	62 688.4	2 10	433 927	3 407
13 35	30.730	35	1 075.55	1843.82	35	64 532.2	5 00	542 396	5 324
36	0	6	1 106.28	.82	6	66 376.0	6 00	650 857	7 666
37	0	7	1 137.01	.82	7	68 219.8	7 00	759 307	10 434
38	0	8	1 167.74	.83	8	70 063.6	8 00	867 746	13 628
39	0	9	1 198.47	.83	9	71 907.5	9 00	976 172	17 248
13 40	30.731	40	1 229.21	1843.83	40	73 751.3	10 00	1 084 583	21 294
41	1	1	1 259.94	.83	1	75 595.1	11 00	1 192 977	25 765
42	1	2	1 290.67	.84	2	77 439.0	12 00	1 301 352	30 661
43	1	3	1 321.40	.84	3	79 282.8	13 00	1 409 708	35 983
44	1	4	1 352.13	.84	4	81 126.7	14 00	1 518 042	41 730
13 45	30.731	45	1 382.86	1843.84	45	82 970.5	15 00	1 626 352	47 903
46	1	6	1 413.59	.85	6	84 814.3	16 00	1 734 637	54 501
47	1	7	1 444.32	.85	7	86 658.2	17 00	1 842 896	61 524
48	1	8	1 475.05	.85	8	88 502.0	18 00	1 951 126	68 972
49	1	9	1 505.78	.85	9	90 345.9	19 00	2 059 326	76 845
13 50	30.731	50	1 536.51	1843.86	50	92 189.8	20 00	2 167 494	85 143
51	1	1	1 567.24	.86	1	94 033.6	21 00	2 275 629	93 865
52	1	2	1 597.97	.86	2	95 877.5	22 00	2 383 729	103 012
53	1	3	1 628.70	.86	3	97 721.3	23 00	2 491 792	112 583
54	1	4	1 659.43	.87	4	99 565.2	24 00	2 599 817	122 578
13 55	30.731	55	1 690.16	1843.87	55	101 409.1	25 00	2 707 801	132 997
56	1	6	1 720.89	.87	6	103 252.9	26 00	2 815 744	143 840
57	1	7	1 751.62	.87	7	105 096.8	27 00	2 923 644	155 107
58	1	8	1 782.35	.88	8	106 940.7	28 00	3 031 498	166 798
59	1	9	1 813.08	.88	9	108 784.6	29 00	3 139 305	178 912
13 60	30.731	60	1 843.81	1843.88	60	110 628.4	30 00	3 247 065	191 448

Latitude 14° to 15°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
14 00	30.010	60.02	90.03	120.04	150.05	180.06	210.07	240.08	270.09	1800.6	3601.2	5401.8	7202.4	9003.0
1	.008	.02	.02	.03	.04	.05	.06	.06	.07	0.5	0.9	1.4	1.9	2.3
2	.005	.01	.02	.02	.03	.03	.04	.04	.05	0.3	0.7	1.0	1.3	1.6
3	.003	.01	.01	.01	.02	.02	.03	.03	.03	0.2	0.4	0.6	0.8	1.0
4	.001	.00	90.00	20.00	50.01	80.01	.01	40.01	70.01	800.1	600.2	400.2	200.2	9000.4
14 05	29.999	60.00	90.00	119.99	149.99	179.99	210.00	239.99	269.99	1799.9	3599.9	5399.8	7199.7	8999.7
6	.997	60.00	89.99	.99	.98	.98	09.98	.97	.97	9.8	9.6	9.4	9.2	9.0
7	.995	59.99	.98	.98	.97	.97	.97	.95	.95	9.7	9.4	9.0	8.7	8.4
8	.992	.99	.98	.97	.96	.95	.95	.94	.93	9.5	9.1	8.7	8.1	7.7
9	.990	.98	.97	.96	.95	.94	.94	.92	.91	9.4	8.9	8.3	7.6	7.1
14 10	29.988	59.98	89.96	119.95	149.94	179.93	209.92	239.90	269.89	1799.3	3598.6	5397.9	7197.1	8996.4
11	.986	.98	.96	.94	.93	.92	.90	.88	.87	9.2	8.3	7.5	6.6	5.7
12	.984	.97	.95	.93	.92	.90	.89	.87	.85	9.0	8.0	7.1	6.1	5.1
13	.981	.97	.94	.92	.91	.89	.87	.85	.83	8.9	7.8	6.7	5.5	4.4
14	.979	.96	.94	.91	.90	.88	.86	.83	.81	8.8	7.5	6.3	5.0	3.8
14 15	29.977	59.96	89.93	119.90	149.88	179.86	209.84	239.81	269.79	1798.6	3597.2	5395.9	7194.5	8993.1
16	.975	.95	.92	.90	.87	.85	.82	.80	.77	8.5	6.9	5.5	4.0	2.4
17	.973	.95	.92	.89	.86	.84	.81	.78	.75	8.4	6.7	5.1	3.5	1.8
18	.970	.94	.91	.88	.85	.82	.79	.76	.73	8.2	6.4	4.7	2.9	1.1
19	.968	.94	.91	.87	.84	.81	.78	.75	.71	8.1	6.2	4.3	2.4	90.5
14 20	29.966	59.93	89.90	119.86	149.83	179.80	209.76	239.73	269.69	1798.0	3595.9	5393.9	7191.9	8989.8
21	.964	.93	.89	.85	.82	.79	.75	.71	.67	7.9	5.6	3.5	1.4	9.1
22	.962	.92	.89	.84	.81	.77	.73	.69	.65	7.7	5.4	3.1	0.8	8.5
23	.959	.92	.88	.84	.80	.76	.72	.68	.63	7.6	5.1	2.7	90.3	7.8
24	.957	.91	.87	.83	.79	.74	.70	.66	.61	7.4	4.9	2.3	89.7	7.2
14 25	29.955	59.91	89.86	119.82	149.77	179.73	209.69	239.64	269.59	1797.3	3594.6	5391.9	7189.2	8986.5
26	.953	.91	.86	.81	.76	.72	.67	.62	.57	7.2	4.3	1.5	8.7	5.8
27	.950	.90	.85	.80	.75	.70	.66	.60	.55	7.0	4.1	1.1	8.1	5.1
28	.948	.90	.84	.80	.74	.69	.64	.59	.53	6.9	3.8	0.7	7.6	4.5
29	.946	.89	.84	.79	.73	.67	.63	.57	.51	6.7	3.6	90.3	7.0	3.8
14 30	29.944	59.89	89.83	119.78	149.72	179.66	209.61	239.55	269.49	1796.6	3593.3	5389.9	7186.5	8983.1
31	.941	.89	.82	.77	.71	.65	.59	.53	.47	6.5	3.0	9.5	6.0	2.4
32	.939	.88	.82	.76	.70	.64	.58	.51	.45	6.4	2.7	9.1	5.4	1.8
33	.937	.88	.81	.75	.69	.62	.56	.50	.43	6.2	2.5	8.7	4.9	1.1
34	.935	.87	.80	.74	.68	.61	.55	.48	.41	6.1	2.2	8.3	4.3	80.5
14 35	29.933	59.87	89.80	119.73	149.66	179.60	209.53	239.46	269.39	1796.0	3591.9	5387.9	7183.8	8979.8
36	.930	.86	.79	.73	.65	.58	.51	.44	.37	5.8	1.6	7.5	3.3	9.1
37	.928	.86	.78	.72	.64	.57	.50	.42	.35	5.7	1.4	7.1	2.7	8.4
38	.926	.85	.78	.71	.63	.56	.48	.41	.33	5.6	1.1	6.6	2.2	7.8
39	.924	.85	.77	.70	.62	.54	.47	.39	.31	5.4	0.9	6.2	1.6	7.1
14 40	29.921	59.84	89.76	119.69	149.61	179.53	209.45	239.37	269.29	1795.3	3590.6	5385.8	7181.1	8976.4
41	.919	.84	.76	.68	.60	.52	.43	.35	.27	5.2	0.3	5.4	0.6	5.7
42	.917	.83	.75	.67	.59	.50	.42	.33	.25	5.0	90.0	5.0	80.0	5.0
43	.915	.83	.74	.66	.57	.49	.40	.32	.23	4.9	89.8	4.5	79.5	4.4
44	.912	.82	.74	.65	.56	.47	.39	.30	.21	4.7	9.5	4.1	8.9	3.7
14 45	29.910	59.82	89.73	119.64	149.55	179.46	209.37	239.28	269.19	1794.6	3589.2	5383.7	7178.4	8973.0
46	.908	.82	.72	.63	.54	.45	.35	.26	.17	4.5	8.9	3.3	7.9	2.3
47	.905	.81	.72	.62	.53	.43	.34	.24	.15	4.3	8.6	2.9	7.3	1.6
48	.903	.81	.71	.61	.51	.42	.32	.23	.13	4.2	8.4	2.5	6.8	1.0
49	.901	.80	.70	.60	.50	.40	.31	.21	.11	4.0	8.1	2.1	6.2	70.3
14 50	29.899	59.80	89.70	119.59	149.49	179.39	209.29	239.19	269.09	1793.9	3587.8	5381.7	7175.7	8969.6
51	.896	.80	.69	.58	.48	.38	.27	.17	.07	3.8	7.5	1.3	5.1	8.9
52	.894	.79	.68	.57	.47	.36	.26	.15	.05	3.6	7.2	0.9	4.6	8.2
53	.892	.79	.68	.56	.46	.35	.24	.13	.03	3.5	7.0	0.5	4.0	7.5
54	.889	.78	.67	.55	.45	.33	.23	.11	9.01	3.3	6.7	80.1	3.5	6.8
14 55	29.887	59.78	89.66	119.54	149.43	179.32	209.21	239.09	268.98	1793.2	3586.4	5379.7	7172.9	8966.1
56	.885	.77	.65	.54	.42	.31	.19	.08	.96	3.1	6.1	9.3	2.3	5.4
57	.882	.77	.65	.53	.41	.29	.18	.06	.94	2.9	5.9	8.9	1.8	4.7
58	.880	.76	.64	.52	.40	.28	.16	.04	.92	2.8	5.6	8.4	1.2	4.1
59	.878	.76	.63	.51	.39	.26	.15	.02	.90	2.6	5.4	8.0	0.7	3.4
14 60	29.876	59.75	89.63	119.50	149.38	179.25	209.13	239.00	268.88	1792.5	3585.1	5377.6	7170.1	8962.7

Lat.	Latitude 14° to 15°—Meridional arcs						Latitude 14°—Coordinates of curvature for the polyconic projection		
	Value of 1"	Sums of seconds for middle latitude 14°30'		Value of 1'	Continuous sums of minutes from latitude 14°00'		Longitude	X	Y
		Meters	"		Meters	'			
14 00	30. 731			1843. 88			0 1	1 800. 6	0. 1
1	1	1	30. 73	. 88	1	1 843. 9	2	3 601. 2	0. 3
2	1	2	61. 47	. 89	2	3 687. 3	3	5 401. 8	0. 6
3	1	3	92. 20	. 89	3	5 531. 7	4	7 202. 4	1. 0
4	2	4	122. 93	. 89	4	7 375. 6			
14 05	30. 732	5	153. 66	1843. 89	5	9 219. 4	0 5	9 002. 9	1. 6
6	2	6	184. 40	. 90	6	11 063. 3	6	10 803. 5	2. 3
7	2	7	215. 13	. 90	7	12 907. 2	7	12 604. 1	3. 1
8	2	8	245. 86	. 90	8	14 751. 1	8	14 404. 7	4. 1
9	2	9	276. 59	. 91	9	16 595. 0	9	16 205. 3	5. 1
14 10	30. 732	10	307. 33	1843. 91	10	18 438. 9	0 10	18 005. 9	6. 3
11	2	1	338. 06	. 91	1	20 282. 9	15	27 008. 8	14. 2
12	2	2	368. 79	. 91	2	22 126. 8	20	36 011. 8	25. 3
13	2	3	399. 52	. 92	3	23 970. 7	25	45 014. 7	39. 6
14	2	4	430. 26	. 92	4	25 814. 6	30	54 017. 7	57. 0
14 15	30. 732	15	460. 99	1843. 92	15	27 658. 5	0 35	63 020. 6	77. 6
16	2	6	491. 72	. 92	6	29 502. 5	40	72 023. 5	101. 4
17	2	7	522. 46	. 93	7	31 346. 4	45	81 026. 4	128. 3
18	2	8	553. 19	. 93	8	33 190. 3	50	90 029. 3	158. 4
19	2	9	583. 92	. 93	9	35 034. 3	55	99 032. 2	191. 7
14 20	30. 732	20	614. 65	1843. 93	20	36 878. 2	1 00	108 035. 1	228. 1
21	2	1	645. 39	. 94	1	38 722. 1	05	117 037. 9	267. 7
22	2	2	676. 12	. 94	2	40 566. 1	10	126 040. 8	310. 4
23	2	3	706. 85	. 94	3	42 410. 0	15	135 043. 6	356. 4
24	2	4	737. 58	. 94	4	44 254. 0	20	144 046. 4	405. 5
14 25	30. 732	25	768. 32	1843. 95	25	46 097. 9	1 25	153 049. 2	457. 7
26	2	6	799. 05	. 95	6	47 941. 9	30	162 052. 0	513. 2
27	3	7	829. 78	. 95	7	49 785. 8	35	171 054. 8	571. 8
28	3	8	860. 52	. 96	8	51 629. 8	40	180 057. 5	633. 6
29	3	9	891. 25	. 96	9	53 473. 7	45	189 060. 2	698. 5
14 30	30. 733	30	921. 98	1843. 96	30	55 317. 7	1 50	198 062. 9	766. 6
31	3	1	952. 71	. 96	1	57 161. 6	55	207 065. 6	837. 9
32	3	2	983. 45	. 97	2	59 005. 6	2 00	216 068	912
33	3	3	1 014. 18	. 97	3	60 849. 5	3 00	324 098	2 053
34	3	4	1 044. 91	. 97	4	62 693. 5	4 00	432 121	3 649
14 35	30. 733	35	1 075. 64	1843. 97	35	64 537. 5	5 00	540 137	5 702
36	3	6	1 106. 38	. 98	6	66 381. 5	6 00	648 143	8 210
37	3	7	1 137. 11	. 98	7	68 225. 4	7 00	756 138	11 175
38	3	8	1 167. 84	. 98	8	70 069. 4	8 00	864 119	14 595
39	3	9	1 198. 57	. 98	9	71 913. 4	9 00	972 085	18 472
14 40	30. 733	40	1 229. 31	1843. 99	40	73 757. 4	10 00	1 080 033	22 805
41	3	1	1 260. 04	. 99	1	75 601. 4	11 00	1 187 962	27 593
42	3	2	1 290. 77	. 99	2	77 445. 4	12 00	1 295 870	32 837
43	3	3	1 321. 51	3. 99	3	79 289. 4	13 00	1 403 755	38 536
44	3	4	1 352. 24	4. 00	4	81 133. 4	14 00	1 511 615	44 691
14 45	30. 733	45	1 382. 97	1844. 00	45	82 977. 3	15 00	1 619 448	51 301
46	3	6	1 413. 70	. 00	6	84 821. 4	16 00	1 727 252	58 366
47	3	7	1 444. 44	. 00	7	86 665. 4	17 00	1 835 025	65 887
48	3	8	1 475. 17	. 01	8	88 509. 4	18 00	1 942 766	73 863
49	3	9	1 505. 90	. 01	9	90 353. 4	19 00	2 050 472	82 294
14 50	30. 734	50	1 536. 63	1844. 01	50	92 197. 4	20 00	2 158 142	91 179
51	4	1	1 567. 37	. 01	1	94 041. 4	21 00	2 265 772	100 518
52	4	2	1 598. 10	. 02	2	95 885. 4	22 00	2 373 362	110 312
53	4	3	1 628. 83	. 02	3	97 729. 4	23 00	2 480 911	120 560
54	4	4	1 659. 57	. 02	4	99 573. 5	24 00	2 588 415	131 262
14 55	30. 734	55	1 690. 30	1844. 02	55	101 417. 5	25 00	2 695 873	142 418
56	4	6	1 721. 03	. 03	6	103 261. 5	26 00	2 803 283	154 028
57	4	7	1 751. 76	. 03	7	105 105. 5	27 00	2 910 642	166 091
58	4	8	1 782. 50	. 03	8	106 949. 6	28 00	3 017 950	178 607
59	4	9	1 813. 23	. 04	9	108 793. 6	29 00	3 125 204	191 576
14 60	30. 734	60	1 843. 96	1844. 04	60	110 637. 6	30 00	3 232 402	204 998

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 15° to 16°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
15 00	29.876	59.75	89.63	119.50	149.38	179.25	209.13	239.00	268.88	1792.5	3585.1	5377.6	7170.1	8962.7
1	.873	.75	.62	.49	.37	.24	.11	8.98	.86	2.4	4.8	7.2	69.6	2.0
2	.871	.74	.61	.48	.36	.22	.10	.96	.84	2.2	4.5	6.8	9.0	1.3
3	.869	.74	.61	.47	.34	.21	.08	.95	.82	2.1	4.3	6.3	8.4	60.6
4	.866	.73	.60	.46	.33	.19	.07	.93	.80	1.9	4.0	5.9	7.9	59.9
15 05	29.864	59.73	89.59	119.45	149.32	179.18	209.05	238.91	268.77	1791.8	3583.7	5375.5	7167.3	8959.2
6	.862	.72	.59	.45	.31	.17	.03	.89	.75	1.7	3.4	5.1	6.8	8.5
7	.859	.72	.58	.44	.30	.15	.02	.87	.73	1.5	3.1	4.7	6.2	7.8
8	.857	.71	.57	.43	.28	.14	9.00	.86	.71	1.4	2.9	4.2	5.7	7.1
9	.855	.71	.56	.42	.27	.12	8.99	.84	.69	1.2	2.6	3.8	5.1	6.4
15 10	29.852	59.70	89.56	119.41	149.26	179.11	208.97	238.82	268.67	1791.1	3582.3	5373.4	7164.6	8955.7
11	.850	.70	.55	.40	.25	.10	.95	.80	.65	1.0	2.0	3.0	4.0	5.0
12	.848	.69	.54	.39	.24	.08	.94	.78	.63	0.8	1.7	2.6	3.4	4.3
13	.845	.69	.54	.38	.22	.07	.92	.76	.61	0.7	1.5	2.1	2.9	3.6
14	.843	.68	.53	.37	.21	.05	.90	.74	.59	0.5	1.2	1.7	2.3	2.9
15 15	29.841	59.68	89.52	119.36	149.20	179.04	208.89	238.72	268.56	1790.4	3580.9	5371.3	7161.7	8952.2
16	.838	.68	.52	.35	.19	.03	.87	.71	.54	0.3	0.6	0.9	1.1	1.5
17	.836	.67	.51	.34	.18	.01	.85	.69	.52	0.1	0.3	0.5	0.6	0.8
18	.833	.67	.50	.33	.16	9.00	.83	.67	.50	90.0	80.0	70.0	60.0	50.0
19	.831	.66	.49	.32	.15	8.98	.82	.65	.48	89.8	79.7	69.6	59.5	49.3
15 20	29.829	59.66	89.49	119.31	149.14	178.97	208.80	238.63	268.46	1789.7	3579.4	5369.2	7158.9	8948.6
21	.826	.66	.48	.30	.13	.96	.78	.61	.44	9.6	9.1	8.8	8.3	7.9
22	.824	.65	.47	.29	.12	.94	.77	.59	.42	9.4	8.8	8.3	7.7	7.2
23	.821	.65	.46	.28	.11	.93	.75	.57	.40	9.3	8.6	7.9	7.2	6.4
24	.819	.64	.46	.27	.10	.91	.74	.55	.38	9.1	8.3	7.4	6.6	5.7
15 25	29.817	59.64	89.45	119.26	149.08	178.90	208.72	238.54	268.35	1789.0	3578.0	5367.0	7156.0	8945.0
26	.814	.63	.44	.26	.07	.89	.70	.52	.33	8.9	7.7	6.6	5.4	4.3
27	.812	.63	.44	.25	.06	.87	.69	.50	.31	8.7	7.4	6.2	4.9	3.6
28	.810	.62	.43	.24	.05	.86	.67	.48	.29	8.6	7.2	5.7	4.3	2.9
29	.807	.62	.42	.23	.04	.84	.66	.46	.27	8.4	6.9	5.3	3.8	2.2
15 30	29.805	59.61	89.42	119.22	149.03	178.83	208.64	238.44	268.25	1788.3	3576.6	5364.9	7153.2	8941.5
31	.803	.61	.41	.21	.02	.82	.62	.42	.23	8.2	6.3	4.5	2.6	0.8
32	.800	.60	.40	.20	9.01	.80	.61	.40	.21	8.0	6.0	4.0	2.0	40.1
33	.798	.60	.39	.19	8.99	.79	.59	.38	.18	7.9	5.8	3.6	1.5	39.3
34	.795	.59	.39	.18	.98	.77	.57	.36	.16	7.7	5.5	3.1	0.9	8.6
15 35	29.793	59.59	89.38	119.17	148.97	178.76	208.55	238.35	268.14	1787.6	3575.2	5362.7	7150.6	8937.9
36	.791	.58	.37	.16	.96	.75	.54	.33	.12	7.5	4.9	2.3	49.7	7.2
37	.788	.58	.36	.15	.95	.73	.52	.31	.10	7.3	4.6	1.9	9.1	6.5
38	.786	.57	.36	.14	.93	.72	.50	.29	.07	7.2	4.3	1.4	8.6	5.7
39	.783	.57	.35	.13	.92	.70	.49	.27	.05	7.0	4.0	1.0	8.0	5.0
15 40	29.781	59.56	89.34	119.12	148.91	178.69	208.47	238.25	268.03	1786.9	3573.7	5360.6	7147.4	8934.3
41	.779	.56	.34	.11	.90	.67	.45	.23	.01	6.7	3.4	60.2	6.8	3.6
42	.776	.55	.33	.10	.88	.66	.44	.21	7.99	6.6	3.1	59.7	6.2	2.8
43	.774	.55	.32	.09	.87	.64	.42	.19	.96	6.4	2.9	9.3	5.7	2.1
44	.771	.54	.31	.08	.86	.63	.40	.17	.94	6.3	2.6	8.8	5.1	1.3
15 45	29.769	59.54	89.31	119.07	148.84	178.61	208.39	238.15	267.92	1786.1	3572.3	5358.4	7144.5	8930.6
46	.766	.53	.30	.07	.83	.60	.37	.13	.90	6.0	2.0	8.0	3.9	29.9
47	.764	.53	.29	.06	.82	.58	.35	.11	.88	5.8	1.7	7.5	3.3	9.2
48	.761	.52	.28	.05	.81	.57	.33	.09	.85	5.7	1.4	7.1	2.8	8.4
49	.759	.52	.28	.04	.79	.55	.32	.07	.83	5.5	1.1	6.6	2.2	7.7
15 50	29.757	59.51	89.27	119.03	148.78	178.54	208.30	238.05	267.81	1785.4	3570.8	5356.2	7141.6	8927.0
51	.754	.51	.26	.02	.77	.53	.28	.03	.79	5.3	0.5	5.8	1.0	6.3
52	.752	.50	.26	.01	.76	.51	.27	8.01	.77	5.1	70.2	5.3	40.4	5.5
53	.749	.50	.25	9.00	.74	.50	.25	7.99	.74	5.0	69.9	4.9	39.9	4.8
54	.747	.49	.24	8.99	.73	.48	.23	.97	.72	4.8	9.6	4.4	9.3	4.0
15 55	29.744	59.49	89.23	118.98	148.72	178.47	208.22	237.96	267.70	1784.7	3569.3	5354.0	7138.7	8923.3
56	.742	.48	.23	.97	.71	.45	.20	.94	.68	4.5	9.0	3.6	8.1	2.6
57	.740	.48	.22	.96	.70	.44	.18	.92	.66	4.4	8.7	3.1	7.5	1.9
58	.737	.47	.21	.95	.68	.42	.16	.90	.63	4.2	8.5	2.7	6.9	1.1
59	.735	.47	.20	.94	.67	.41	.15	.88	.61	4.1	8.2	2.2	6.3	20.4
15 60	29.732	59.46	89.20	118.93	148.66	178.39	208.13	237.86	267.59	1783.9	3567.9	5351.8	7135.7	8919.7

Lat.	Latitude 15° to 16°—Meridional arcs						Latitude 15°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 15°30'		Value of 1'	Continuous sums of minutes from latitude 15°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
15 00	30.734			1844.04			0 1	1 792.5	0.1
1	4	1	30.74	.04	1	1 844.0	0 2	3 585.1	0.3
2	4	2	61.47	.05	2	3 688.1	0 3	5 377.0	0.6
3	4	3	92.21	.05	3	5 532.1	0 4	7 170.1	1.1
4	4	4	122.94	.05	4	7 376.2			
15 05	30.734	5	153.68	1844.05	5	9 220.2	0 5	8 962.7	1.7
6	4	6	184.41	.06	6	11 064.3	0 6	10 755.2	2.4
7	4	7	215.15	.06	7	12 908.4	0 7	12 547.7	3.3
8	4	8	245.88	.06	8	14 752.4	0 8	14 340.2	4.3
9	4	9	276.62	.06	9	16 596.5	0 9	16 132.8	5.5
15 10	30.734	10	307.35	1844.07	10	18 440.6	0 10	17 925.3	6.8
11	5	1	338.09	.07	1	20 284.6	0 15	26 887.9	15.2
12	5	2	368.82	.07	2	22 128.7	0 20	35 850.6	27.0
13	5	3	399.56	.08	3	23 972.8	0 25	44 813.2	42.2
14	5	4	430.30	.08	4	25 816.9	0 30	53 775.9	60.7
15 15	30.735	15	461.03	1844.08	15	27 660.9	0 35	62 738.5	82.7
16	5	6	491.77	.08	6	29 505.0	0 40	71 701.2	108.0
17	5	7	522.50	.09	7	31 349.1	0 45	80 663.8	136.7
18	5	8	553.24	.09	8	33 193.2	0 50	89 626.4	168.7
19	5	9	583.97	.09	9	35 037.3	0 55	98 589.0	204.1
15 20	30.735	20	614.71	1844.10	20	36 881.4	1 00	107 551.6	242.9
21	5	1	645.44	.10	1	38 725.5	1 05	116 514.1	285.1
22	5	2	676.18	.10	2	40 569.6	1 10	125 476.6	330.7
23	5	3	706.91	.10	3	42 413.7	1 15	134 439.2	379.6
24	5	4	737.65	.11	4	44 257.8	1 20	143 401.7	431.9
15 25	30.735	25	768.39	1844.11	25	46 101.9	1 25	152 364.2	487.5
26	5	6	799.12	.11	6	47 946.0	1 30	161 326.6	546.6
27	5	7	829.86	.12	7	49 790.1	1 35	170 289.1	609.0
28	5	8	860.59	.12	8	51 634.3	1 40	179 251.5	674.8
29	5	9	891.33	.12	9	53 478.4	1 45	188 213.9	743.9
15 30	30.735	30	922.06	1844.12	30	55 322.5	1 50	197 176.3	816.5
31	5	1	952.80	.13	1	57 166.6	1 55	206 138.6	892.4
32	5	2	983.53	.13	2	59 010.8	2 00	215 101	972
33	6	3	1 014.27	.13	3	60 854.9	2 05	224 064	1 056
34	6	4	1 045.00	.13	4	62 699.0	2 10	233 027	1 140
15 35	30.736	35	1 075.74	1844.14	35	64 543.2	5 00	537 713	6 072
36	6	6	1 106.47	.14	6	66 387.3	6 00	645 232	8 744
37	6	7	1 137.21	.14	7	68 231.4	7 00	752 738	11 901
38	6	8	1 167.95	.15	8	70 075.6	8 00	860 228	15 545
39	6	9	1 198.68	.15	9	71 919.7	9 00	967 701	19 674
15 40	30.736	40	1 229.42	1844.15	40	73 763.9	10 00	1 075 153	24 288
41	6	1	1 260.15	.15	1	75 608.0	11 00	1 182 584	29 387
42	6	2	1 290.89	.16	2	77 452.2	12 00	1 289 991	34 972
43	6	3	1 321.62	.16	3	79 296.3	13 00	1 397 371	41 042
44	6	4	1 352.36	.16	4	81 140.5	14 00	1 504 723	47 597
15 45	30.736	45	1 383.09	1844.17	45	82 984.6	15 00	1 612 046	54 636
46	6	6	1 413.83	.17	6	84 828.8	16 00	1 719 333	62 160
47	6	7	1 444.56	.17	7	86 673.0	17 00	1 826 586	70 169
48	6	8	1 475.30	.17	8	88 517.2	18 00	1 933 802	78 662
49	6	9	1 506.03	.18	9	90 361.3	19 00	2 040 978	87 639
15 50	30.736	50	1 536.77	1844.18	50	92 205.5	20 00	2 148 113	97 101
51	6	1	1 567.51	.18	1	94 049.7	21 00	2 255 204	107 047
52	6	2	1 598.24	.19	2	95 893.9	22 00	2 362 248	117 476
53	6	3	1 628.98	.19	3	97 738.1	23 00	2 469 245	128 388
54	7	4	1 659.71	.19	4	99 582.3	24 00	2 576 192	139 784
15 55	30.737	55	1 690.45	1844.19	55	101 426.5	25 00	2 683 086	151 663
56	7	6	1 721.18	.20	6	103 270.6	26 00	2 789 925	164 024
57	7	7	1 751.92	.20	7	105 114.8	27 00	2 896 708	176 868
58	7	8	1 782.65	.20	8	106 959.0	28 00	3 003 430	190 194
59	7	9	1 813.39	.20	9	108 803.3	29 00	3 110 091	204 003
15 60	30.737	60	1 844.12	1844.21	60	110 647.5	30 00	3 216 690	218 294

Latitude 16° to 17°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
16 00	29.732	59.46	89.20	118.93	148.66	178.39	208.13	237.86	267.59	1783.9	3567.9	5351.8	7135.7	8919.7
1	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.4	5.1	8.9
2	.727	.45	.18	.91	.64	.36	.09	.82	.55	3.6	7.3	0.9	4.5	8.2
3	.725	.45	.17	.90	.62	.35	.08	.80	.53	3.5	7.0	0.5	3.9	7.4
4	.722	.44	.17	.89	.61	.33	.06	.78	.51	3.3	6.7	50.0	3.3	6.7
16 05	29.720	59.44	89.16	118.88	148.60	178.32	208.04	237.76	267.48	1783.2	3566.4	5349.6	7132.7	8915.9
6	.717	.43	.15	.87	.59	.30	.02	.74	.46	3.0	6.1	9.1	2.1	5.2
7	.715	.43	.14	.86	.58	.29	8.00	.72	.44	2.9	5.8	8.7	1.5	4.4
8	.712	.42	.14	.85	.56	.27	7.99	.70	.41	2.7	5.5	8.2	1.0	3.7
9	.710	.42	.13	.84	.55	.26	.97	.68	.39	2.6	5.2	7.8	30.4	2.9
16 10	29.707	59.41	89.12	118.83	148.54	178.24	207.95	237.66	267.37	1782.4	3564.9	5347.3	7129.8	8912.2
11	.705	.41	.11	.82	.53	.23	.93	.64	.35	2.3	4.6	6.9	9.2	1.5
12	.702	.40	.11	.81	.51	.21	.92	.62	.32	2.1	4.3	6.4	8.6	0.7
13	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.0	6.0	8.0	10.0
14	.697	.39	.09	.79	.49	.18	.88	.58	.28	1.8	3.7	5.5	7.4	09.2
16 15	29.695	59.39	89.08	118.78	148.47	178.17	207.87	237.56	267.26	1781.7	3563.4	5345.1	7126.8	8908.5
16	.692	.38	.08	.77	.46	.15	.85	.54	.23	1.5	3.1	4.6	6.2	7.7
17	.690	.38	.07	.76	.45	.14	.83	.52	.21	1.4	2.8	4.2	5.6	7.0
18	.687	.37	.06	.75	.44	.12	.81	.50	.19	1.2	2.5	3.7	5.0	6.2
19	.685	.37	.06	.74	.42	.11	.80	.48	.16	1.1	2.2	3.3	4.4	5.5
16 20	29.682	59.36	89.05	118.73	148.41	178.09	207.78	237.46	267.14	1780.9	3561.9	5342.8	7123.8	8904.7
21	.680	.36	.04	.72	.40	.08	.76	.44	.12	0.8	1.6	2.4	3.2	3.9
22	.677	.35	.03	.71	.39	.06	.74	.42	.09	0.6	1.3	1.9	2.6	3.1
23	.675	.35	.02	.70	.37	.05	.73	.40	.07	0.5	1.0	1.5	1.9	2.4
24	.672	.34	.02	.69	.36	.03	.71	.38	.05	0.3	0.7	1.0	1.3	1.6
16 25	29.669	59.34	89.01	118.68	148.35	178.02	207.69	237.36	267.02	1780.2	3560.4	5340.6	7120.7	8900.8
26	.667	.33	9.00	.67	.34	8.00	.67	.34	7.00	80.0	60.1	40.1	20.1	900.0
27	.664	.33	8.99	.66	.33	7.99	.65	.32	6.98	79.9	59.8	39.7	19.5	899.3
28	.662	.32	.99	.65	.31	.97	.64	.30	.96	9.7	9.5	9.2	8.9	8.6
29	.660	.32	.98	.64	.30	.96	.62	.28	.93	9.6	9.2	8.8	8.3	7.9
16 30	29.657	59.31	88.97	118.63	148.29	177.94	207.60	237.26	266.91	1779.4	3558.9	5338.3	7117.7	8897.1
31	.654	.31	.96	.62	.28	.93	.58	.24	.89	9.3	8.6	7.8	7.1	6.3
32	.652	.30	.96	.61	.26	.91	.56	.22	.86	9.1	8.3	7.4	6.5	5.6
33	.649	.30	.95	.60	.25	.90	.55	.20	.84	9.0	7.9	6.9	5.8	4.8
34	.647	.29	.94	.59	.24	.88	.53	.18	.82	8.8	7.6	6.5	5.2	4.1
16 35	29.644	59.29	88.93	118.58	148.22	177.87	207.51	237.15	266.79	1778.7	3557.3	5336.0	7114.6	8893.3
36	.642	.28	.92	.57	.21	.85	.49	.13	.77	8.5	7.0	5.5	4.0	2.5
37	.639	.28	.92	.56	.20	.84	.47	.11	.75	8.4	6.7	5.1	3.4	1.8
38	.637	.27	.91	.55	.19	.82	.46	.09	.73	8.2	6.4	4.6	2.8	1.0
39	.634	.27	.90	.54	.17	.81	.44	.07	.70	8.1	6.1	4.2	2.2	90.3
16 40	29.632	59.26	88.89	118.53	148.16	177.79	207.42	237.05	266.68	1777.9	3555.8	5333.7	7111.6	8889.5
41	.629	.26	.89	.52	.15	.77	.40	.03	.66	7.7	5.5	3.2	1.0	8.7
42	.626	.25	.88	.51	.13	.76	.38	7.01	.63	7.6	5.2	2.8	10.4	7.9
43	.624	.25	.87	.50	.12	.74	.37	6.99	.61	7.4	4.8	2.3	09.7	7.2
44	.621	.24	.86	.49	.11	.73	.35	.97	.59	7.3	4.5	1.9	9.1	6.4
16 45	29.619	59.24	88.86	118.47	148.09	177.71	207.33	236.95	266.56	1777.1	3554.2	5331.4	7108.5	8885.6
46	.616	.23	.85	.46	.08	.70	.31	.93	.54	7.0	3.9	0.9	7.9	4.8
47	.614	.23	.84	.45	.07	.68	.29	.91	.52	6.8	3.6	0.5	7.3	4.1
48	.611	.22	.83	.44	.06	.67	.28	.89	.50	6.7	3.3	30.0	6.6	3.3
49	.609	.22	.83	.43	.04	.65	.26	.87	.47	6.5	3.0	29.6	6.0	2.6
16 50	29.606	59.21	88.82	118.42	148.03	177.64	207.24	236.85	266.45	1776.4	3552.7	5329.1	7105.4	8881.8
51	.603	.21	.81	.41	.02	.62	.22	.83	.43	6.2	2.4	8.6	4.8	1.0
52	.601	.20	.80	.40	8.00	.61	.20	.81	.40	6.1	2.1	8.1	4.2	80.2
53	.598	.20	.79	.39	7.99	.59	.19	.79	.38	5.9	1.7	7.7	3.5	79.4
54	.595	.19	.79	.38	.98	.58	.17	.77	.36	5.8	1.4	7.2	2.9	8.6
16 55	29.593	59.19	88.78	118.37	147.96	177.56	207.15	236.74	266.33	1775.6	3551.1	5326.7	7102.3	8877.8
56	.590	.18	.77	.36	.95	.54	.13	.72	.31	5.4	0.8	6.2	1.7	7.0
57	.587	.18	.76	.35	.94	.53	.11	.70	.29	5.3	0.5	5.8	1.1	6.2
58	.585	.17	.76	.34	.93	.51	.10	.68	.27	5.1	50.2	5.3	100.4	5.5
59	.582	.17	.75	.33	.91	.50	.08	.66	.24	5.0	49.9	4.9	099.8	4.7
16 60	29.580	59.16	88.74	118.32	147.90	177.48	207.06	236.64	266.22	1774.8	3549.6	5324.4	7099.2	8873.9

Lat.	Latitude 16° to 17°—Meridional arcs						Latitude 16°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 16°30'		Value of 1'	Continuous sums of minutes from latitude 16°00'		Longitude	X	Y
		Meters	"		Meters	'			
16 00	30.737			1844.21			0 1	1 783.9	0.1
1	7	1	30.74	.21	1	1 844.2	0 2	3 567.9	0.3
2	7	2	61.48	.21	2	3 688.4	0 3	5 351.8	0.6
3	7	3	92.21	.22	3	5 532.6	0 4	7 135.7	1.1
4	7	4	122.95	.22	4	7 376.9			
16 05	30.737	5	153.69	1844.22	5	9 221.1	0 5	8 919.7	1.8
6	7	6	184.43	.23	6	11 065.3	0 6	10 703.6	2.6
7	7	7	215.17	.23	7	12 909.5	0 7	12 487.5	3.5
8	7	8	245.91	.23	8	14 753.7	0 8	14 271.4	4.6
9	7	9	276.64	.23	9	16 598.0	0 9	16 055.4	5.8
16 10	30.737	10	307.38	1844.24	10	18 442.2	0 10	17 839.3	7.2
11	7	1	338.12	.24	1	20 286.5	0 15	26 758.9	16.1
12	7	2	368.86	.24	2	22 130.7	0 20	35 678.6	28.6
13	7	3	399.60	.25	3	23 975.0	0 25	44 598.2	44.7
14	7	4	430.34	.25	4	25 819.2	0 30	53 517.9	64.4
16 15	30.738	15	461.07	1844.25	15	27 663.5	0 35	62 437.5	87.6
16	8	6	491.81	.26	6	29 507.7	0 40	71 357.1	114.4
17	8	7	522.55	.26	7	31 352.0	0 45	80 276.7	144.8
18	8	8	553.29	.26	8	33 196.3	0 50	89 196.3	173.8
19	8	9	584.03	.26	9	35 040.5	0 55	98 115.9	216.4
16 20	30.738	20	614.77	1844.27	20	36 884.8	1 00	107 035.4	257.5
21	8	1	645.50	.27	1	38 729.1	1 05	115 955.0	302.2
22	8	2	676.24	.27	2	40 573.3	1 10	124 874.5	350.4
23	8	3	706.98	.28	3	42 417.6	1 15	133 794.0	402.3
24	8	4	737.72	.28	4	44 261.9	1 20	142 713.5	457.7
16 25	30.738	25	768.46	1844.28	25	46 106.2	1 25	151 633.0	516.7
26	8	6	799.20	.28	6	47 950.5	1 30	160 552.4	579.3
27	8	7	829.93	.29	7	49 794.7	1 35	169 471.8	645.4
28	8	8	860.67	.29	8	51 639.0	1 40	178 391.2	715.2
29	8	9	891.41	.29	9	53 483.3	1 45	187 310.5	788.5
16 30	30.738	30	922.15	1844.30	30	55 327.6	1 50	196 229.8	865.4
31	8	1	952.89	.30	1	57 171.9	1 55	205 149.1	945.8
32	8	2	983.63	.30	2	59 016.2	2 00	214 068	1 030
33	8	3	1 014.36	.31	3	60 860.5	2 05	223 007	2 317
34	8	4	1 045.10	.31	4	62 704.8	2 10	231 946	4 119
16 35	30.739	35	1 075.84	1844.31	35	64 549.2	5 00	535 127	6 436
36	9	6	1 106.58	.31	6	66 393.5	6 00	642 126	9 268
37	9	7	1 137.32	.32	7	68 237.8	7 00	749 110	12 614
38	9	8	1 168.06	.32	8	70 082.1	8 00	856 075	16 476
39	9	9	1 198.79	.32	9	71 926.4	9 00	963 022	20 852
16 40	30.739	40	1 229.53	1844.33	40	73 770.8	10 00	1 069 946	25 741
41	9	1	1 260.27	.33	1	75 615.1	11 00	1 176 845	31 145
42	9	2	1 291.01	.33	2	77 459.4	12 00	1 283 717	37 064
43	9	3	1 321.75	.34	3	79 303.8	13 00	1 390 559	43 497
44	9	4	1 352.48	.34	4	81 148.1	14 00	1 497 369	50 444
16 45	30.739	45	1 383.22	1844.34	45	82 992.4	15 00	1 604 146	57 904
46	9	6	1 413.96	.34	6	84 836.8	16 00	1 710 883	65 878
47	9	7	1 444.70	.35	7	86 681.1	17 00	1 817 582	74 365
48	9	8	1 475.44	.35	8	88 525.5	18 00	1 924 239	83 366
49	9	9	1 506.18	.35	9	90 369.8	19 00	2 030 851	92 880
16 50	30.739	50	1 536.91	1844.36	50	92 214.2	20 00	2 137 416	102 906
51	9	1	1 567.65	.36	1	94 058.5	21 00	2 243 932	113 445
52	9	2	1 598.39	.36	2	95 902.9	22 00	2 350 395	124 496
53	9	3	1 629.13	.36	3	97 747.2	23 00	2 456 804	136 059
54	39	4	1 659.87	.37	4	99 591.6	24 00	2 563 157	148 134
16 55	30.740	55	1 690.61	1844.37	55	101 436.0	25 00	2 669 451	160 720
56	0	6	1 721.34	.37	6	103 280.3	26 00	2 775 682	173 818
57	0	7	1 752.08	.38	7	105 124.7	27 00	2 881 849	187 427
58	0	8	1 782.82	.38	8	106 969.1	28 00	2 987 949	201 546
59	0	9	1 813.56	.38	9	108 813.5	29 00	3 093 980	216 175
16 60	30.740	60	1 844.30	1844.39	60	110 657.8	30 00	3 199 941	231 315

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 17° to 18°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
17 00	29.580	59.16	88.74	118.32	147.90	177.48	207.06	236.64	266.22	1774.8	3549.6	5324.4	7099.2	8873.9
1	.577	.16	.73	.31	.89	.46	.04	.62	.20	4.6	9.3	3.9	8.6	3.1
2	.574	.15	.72	.30	.87	.45	.02	.60	.17	4.5	9.0	3.4	7.9	2.3
3	.572	.15	.72	.29	.86	.43	7.01	.58	.15	4.3	8.6	3.0	7.3	1.6
4	.569	.14	.71	.28	.85	.42	6.99	.56	.12	4.2	8.3	2.5	6.6	0.8
17 05	29.567	59.14	88.70	118.26	147.83	177.40	206.97	236.53	266.10	1774.0	3548.0	5322.0	7096.0	8870.0
6	.564	.13	.69	.25	.82	.38	.95	.51	.08	3.8	7.7	1.5	5.4	69.2
7	.561	.13	.68	.24	.81	.37	.93	.49	.05	3.7	7.4	1.0	4.8	8.4
8	.559	.12	.68	.23	.80	.35	.92	.47	.03	3.5	7.0	0.6	4.1	7.7
9	.556	.12	.67	.22	.78	.34	.90	.45	6.00	3.4	6.7	20.1	3.5	6.9
17 10	29.554	59.11	88.66	118.21	147.77	177.32	206.88	236.43	5.98	1773.2	3546.4	5319.6	7092.9	8866.1
11	.551	.10	.65	.20	.76	.30	.86	.41	.96	3.0	6.1	9.1	2.3	5.3
12	.548	.10	.64	.19	.74	.29	.84	.39	.93	2.9	5.8	8.7	1.6	4.5
13	.546	.09	.64	.18	.73	.27	.82	.37	.91	2.7	5.4	8.2	1.0	3.7
14	.543	.09	.63	.17	.72	.26	.80	.35	.88	2.6	5.1	7.8	90.3	2.9
17 15	29.540	59.08	88.62	118.16	147.70	177.24	206.79	236.32	265.86	1772.4	3544.8	5317.3	7089.7	8862.1
16	.538	.07	.61	.15	.69	.22	.77	.30	.84	2.2	4.5	6.8	9.1	1.3
17	.535	.07	.60	.14	.68	.21	.75	.28	.81	2.1	4.2	6.3	8.4	60.5
18	.532	.06	.60	.13	.67	.19	.73	.26	.79	1.9	3.8	5.9	7.8	59.7
19	.530	.06	.59	.12	.65	.18	.71	.24	.77	1.8	3.5	5.4	7.1	8.9
17 20	29.527	59.05	88.58	118.11	147.64	177.16	206.69	236.22	265.74	1771.6	3543.2	5314.9	7086.5	8858.1
21	.524	.05	.57	.10	.63	.14	.67	.20	.72	1.4	2.9	4.4	5.9	7.3
22	.522	.04	.56	.09	.61	.13	.65	.18	.69	1.3	2.6	3.9	5.2	6.5
23	.519	.04	.56	.08	.60	.11	.63	.15	.67	1.1	2.2	3.5	4.6	5.7
24	.516	.03	.55	.07	.58	.10	.61	.13	.64	1.0	1.9	3.0	3.9	4.9
17 25	29.514	59.03	88.54	118.05	147.57	177.08	206.60	236.11	265.62	1770.8	3541.6	5312.5	7083.3	8854.1
26	.511	.02	.53	.04	.56	.06	.58	.09	.60	0.6	1.3	2.1	2.7	3.3
27	.508	.02	.52	.03	.54	.05	.56	.07	.57	0.5	1.0	1.6	2.0	2.5
28	.506	.01	.52	.02	.53	.03	.54	.04	.55	0.3	0.6	1.1	1.4	1.7
29	.503	.01	.51	.01	.51	.02	.52	.02	.52	0.2	0.3	0.6	0.7	0.9
17 30	29.500	59.00	88.50	118.00	147.50	177.00	206.50	236.00	265.50	1770.0	3540.0	5310.1	7080.1	8850.1
31	.498	9.00	.49	7.99	.49	6.98	.48	5.98	.48	69.8	39.7	9.6	79.4	49.3
32	.495	8.99	.48	.98	.47	.97	.46	.96	.45	9.7	9.4	9.1	8.8	8.5
33	.492	.99	.48	.97	.46	.95	.44	.94	.43	9.5	9.0	8.6	8.1	7.6
34	.489	.98	.47	.96	.45	.94	.42	.92	.40	9.4	8.7	8.1	7.5	6.8
17 35	29.487	58.98	88.46	117.94	147.43	176.92	206.41	235.89	265.38	1769.2	3538.4	5307.6	7076.8	8846.0
36	.484	.97	.45	.93	.42	.90	.39	.87	.36	9.0	8.1	7.1	6.2	5.2
37	.481	.97	.44	.92	.41	.89	.37	.85	.33	8.9	7.8	6.6	5.5	4.4
38	.479	.96	.44	.91	.40	.87	.35	.83	.31	8.7	7.4	6.2	4.9	3.6
39	.476	.96	.43	.90	.38	.86	.33	.81	.28	8.6	7.1	5.7	4.2	2.8
17 40	29.473	58.95	88.42	117.89	147.37	176.84	206.31	235.79	265.26	1768.4	3536.8	5305.2	7073.6	8842.0
41	.471	.94	.41	.88	.36	.82	.29	.77	.24	8.2	6.5	4.7	2.9	1.2
42	.468	.94	.40	.87	.34	.81	.27	.75	.21	8.1	6.2	4.2	2.3	40.4
43	.465	.93	.40	.86	.33	.79	.25	.72	.19	7.9	5.8	3.7	1.6	39.5
44	.462	.93	.39	.85	.31	.78	.23	.70	.16	7.8	5.5	3.2	1.0	8.7
17 45	29.460	58.92	88.38	117.83	147.30	176.76	206.22	235.68	265.14	1767.6	3535.2	5302.7	7070.3	8837.9
46	.457	.91	.37	.82	.29	.74	.20	.66	.11	7.4	4.9	2.2	69.6	7.1
47	.454	.91	.36	.81	.27	.73	.18	.64	.09	7.3	4.5	1.7	9.0	6.3
48	.451	.90	.35	.80	.26	.71	.16	.61	.06	7.1	4.2	1.3	8.3	5.4
49	.449	.90	.35	.79	.24	.70	.14	.59	.03	7.0	3.8	0.8	7.7	4.6
17 50	29.446	58.89	88.34	117.78	147.23	176.68	206.12	235.57	265.01	1766.8	3533.5	5300.3	7067.0	8833.8
51	.443	.89	.33	.77	.22	.66	.10	.55	4.99	6.6	3.2	299.8	6.3	3.0
52	.441	.88	.32	.76	.20	.64	.08	.53	.96	6.4	2.9	9.3	5.7	2.2
53	.438	.88	.31	.75	.19	.63	.06	.50	.94	6.3	2.5	8.8	5.0	1.3
54	.435	.87	.31	.74	.17	.61	.04	.48	.91	6.1	2.2	8.3	4.4	30.5
17 55	29.432	58.87	88.30	117.72	147.16	176.59	206.03	235.46	264.89	1765.9	3531.9	5297.8	7063.7	8829.7
56	.430	.86	.29	.71	.15	.58	6.01	.44	.87	5.8	1.6	7.3	3.0	8.9
57	.427	.86	.28	.70	.13	.56	5.99	.42	.84	5.6	1.2	6.8	2.4	8.0
58	.424	.85	.27	.69	.12	.54	.97	.39	.82	5.4	0.9	6.3	1.7	7.2
59	.421	.85	.26	.68	.10	.53	.95	.37	.79	5.3	0.5	5.8	1.1	6.3
17 60	29.418	58.84	88.26	117.67	147.09	176.51	205.93	235.35	264.77	1765.1	3530.2	5295.3	7060.4	8825.5

Lat.	Latitude 17° to 18°—Meridional arcs						Latitude 17°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 17°30'		Value of 1'	Continuous sums of minutes from latitude 17°00'		Longitude	X	Y
	Meters	''	Meters	Meters	'	Meters	° '	Meters	Meters
17 00	30.740			1844.39			0 1	1 774.8	0.1
1	0	1	30.74	.39	1	1 844.4	0 2	3 549.6	0.3
2	0	2	61.48	.39	2	3 688.8	3	5 324.4	0.7
3	0	3	92.22	.39	3	5 533.2	4	7 099.2	1.2
4	0	4	122.97	.40	4	7 377.6			
17 05	30.740	5	153.71	1844.40	5	9 222.0	0 5	8 873.9	1.9
6	0	6	184.45	.40	6	11 066.4	6	10 648.7	2.7
7	0	7	215.19	.41	7	12 910.8	7	12 423.5	3.7
8	0	8	245.93	.41	8	14 755.2	8	14 198.3	4.8
9	0	9	276.67	.41	9	16 599.6	9	15 973.1	6.1
17 10	30.740	10	307.41	1844.42	10	18 444.0	0 10	17 747.9	7.5
11	0	1	338.15	.42	1	20 288.5	15	26 621.8	17.0
12	0	2	368.90	.42	2	22 132.9	20	35 495.8	30.2
13	0	3	399.64	.43	3	23 977.3	25	44 369.6	47.2
14	0	4	430.38	.43	4	25 821.7	30	53 243.6	67.9
17 15	30.741	15	461.12	1844.43	15	27 666.2	0 35	62 117.5	92.4
16	1	6	491.86	.44	6	29 510.6	40	70 991.4	120.7
17	1	7	522.60	.44	7	31 355.0	45	79 865.3	152.8
18	1	8	553.34	.44	8	33 199.5	50	88 739.1	188.7
19	1	9	584.09	.44	9	35 043.9	55	97 613.0	228.3
17 20	30.741	20	614.83	1844.45	20	36 888.4	1 00	106 486.9	271.7
21	1	1	645.57	.45	1	38 732.8	05	115 360.7	318.8
22	1	2	676.31	.45	2	40 577.3	10	124 234.5	369.8
23	1	3	707.05	.46	3	42 421.7	15	133 108.3	424.5
24	1	4	737.79	.46	4	44 266.2	20	141 982.0	483.0
17 25	30.741	25	768.53	1844.46	25	46 110.7	1 25	150 855.7	545.2
26	1	6	799.27	.47	6	47 955.1	30	159 729.4	611.3
27	1	7	830.02	.47	7	49 799.6	35	168 603.1	681.1
28	1	8	860.76	.47	8	51 644.1	40	177 476.8	754.7
29	1	9	891.50	.48	9	53 488.6	45	186 350.4	832.1
17 30	30.741	30	922.24	1844.48	30	55 333.0	1 50	195 223.9	913.2
31	1	1	952.98	.48	1	57 177.5	55	204 097.5	998.1
32	1	2	983.72	.49	2	59 022.0	2 00	212 971	1 087
33	1	3	1 014.46	.49	3	60 866.5	3 00	319 450	2 445
34	2	4	1 045.21	.49	4	62 711.0	4 00	425 920	4 347
17 35	30.742	35	1 075.95	1844.50	35	64 555.5	5 00	532 378	6 792
36	2	6	1 106.69	.50	6	66 400.0	6 00	638 824	9 779
37	2	7	1 137.43	.50	7	68 244.5	7 00	745 253	13 310
38	2	8	1 168.17	.50	8	70 089.0	8 00	851 662	17 386
39	2	9	1 198.91	.51	9	71 933.5	9 00	958 049	22 004
17 40	30.742	40	1 229.65	1844.51	40	73 778.0	10 00	1 064 411	27 164
41	2	1	1 260.39	.51	1	75 622.5	11 00	1 170 745	32 867
42	2	2	1 291.14	.52	2	77 467.0	12 00	1 277 049	39 112
43	2	3	1 321.88	.52	3	79 311.6	13 00	1 383 320	45 899
44	2	4	1 352.62	.52	4	81 156.1	14 00	1 489 555	53 229
17 45	30.742	45	1 383.36	1844.53	45	83 000.6	15 00	1 595 750	61 101
46	2	6	1 414.10	.53	6	84 845.1	16 00	1 701 905	69 515
47	2	7	1 444.84	.53	7	86 689.7	17 00	1 808 015	78 470
48	2	8	1 475.58	.54	8	88 534.2	18 00	1 914 078	87 967
49	2	9	1 506.33	.54	9	90 378.7	19 00	2 020 091	98 005
17 50	30.742	50	1 537.07	1844.54	50	92 223.3	20 00	2 126 051	108 583
51	2	1	1 567.81	.55	1	94 067.8	21 00	2 231 956	119 702
52	2	2	1 598.55	.55	2	95 912.3	22 00	2 337 803	131 362
53	3	3	1 629.29	.55	3	97 756.9	23 00	2 443 589	143 562
54	3	4	1 660.03	.55	4	99 601.4	24 00	2 549 312	156 301
17 55	30.743	55	1 690.77	1844.56	55	101 446.0	25 00	2 654 968	169 578
56	3	6	1 721.51	.56	6	103 290.6	26 00	2 760 554	183 395
57	3	7	1 752.26	.56	7	105 135.1	27 00	2 866 069	197 751
58	3	8	1 783.00	.57	8	106 979.7	28 00	2 971 510	212 646
59	3	9	1 813.74	.57	9	108 824.3	29 00	3 076 874	228 079
17 60	30.743	60	1 844.48	1844.57	60	110 668.8	30 00	3 182 157	244 048

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 18° to 19°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
18 00	29.418	58.84	88.26	117.67	147.09	176.51	205.93	235.35	264.77	1765.1	3530.2	5295.3	7060.4	8825.5
1	.416	.83	.25	.66	.08	.49	.91	.33	.75	4.9	29.9	4.8	59.7	4.7
2	.413	.83	.24	.65	.06	.48	.89	.31	.72	4.8	9.5	4.3	9.1	3.9
3	.410	.82	.23	.64	.05	.46	.87	.28	.70	4.6	9.2	3.8	8.4	3.0
4	.407	.82	.22	.63	.03	.44	.85	.26	.67	4.4	8.8	3.3	7.8	2.2
18 05	29.405	58.81	88.21	117.61	147.02	176.43	205.84	235.24	264.65	1764.3	3528.5	5292.8	7057.1	8821.4
6	.402	.80	.21	.60	7.01	.41	.82	.22	.62	4.1	8.2	2.3	6.4	20.6
7	.399	.80	.20	.59	6.99	.39	.80	.20	.60	3.9	7.9	1.8	5.8	19.7
8	.396	.79	.19	.58	.98	.38	.78	.17	.57	3.8	7.5	1.3	5.1	8.9
9	.393	.79	.18	.57	.96	.36	.76	.15	.55	3.6	7.2	0.8	4.5	8.0
18 10	29.391	58.78	88.17	117.56	146.95	176.34	205.74	235.13	264.52	1763.4	3526.9	5290.3	7053.8	8817.2
11	.388	.78	.16	.55	.94	.32	.72	.11	.49	3.2	6.6	89.8	3.1	6.4
12	.385	.77	.15	.54	.92	.31	.70	.08	.47	3.1	6.2	9.3	2.4	5.5
13	.382	.77	.15	.53	.91	.29	.68	.06	.44	2.9	5.9	8.8	1.8	4.7
14	.379	.76	.14	.52	.89	.28	.66	.04	.42	2.8	5.5	8.3	1.1	3.8
18 15	29.377	58.76	88.13	117.50	146.88	176.26	205.64	235.01	264.39	1762.6	3525.2	5287.8	7050.4	8813.0
16	.374	.75	.12	.49	.87	.24	.62	4.99	.36	2.4	4.9	7.3	49.7	2.2
17	.371	.75	.11	.48	.85	.23	.60	.97	.34	2.3	4.5	6.8	9.1	1.3
18	.368	.74	.11	.47	.84	.21	.58	.95	.31	2.1	4.2	6.3	8.4	10.5
19	.365	.74	.10	.46	.82	.20	.56	.92	.29	2.0	3.8	5.8	7.8	09.6
18 20	29.363	58.73	88.09	117.45	146.81	176.18	205.54	234.90	264.26	1761.8	3523.5	5285.3	7047.1	8808.8
21	.360	.72	.08	.44	.80	.16	.52	.88	.24	1.6	3.2	4.8	6.4	8.0
22	.357	.72	.07	.43	.78	.14	.50	.86	.21	1.4	2.8	4.3	5.7	7.1
23	.354	.71	.06	.42	.77	.13	.48	.83	.19	1.3	2.5	3.7	5.1	6.3
24	.351	.71	.05	.41	.75	.11	.46	.81	.16	1.1	2.1	3.2	4.4	5.4
18 25	29.349	58.70	88.05	117.39	146.74	176.09	205.44	234.79	264.14	1760.9	3521.8	5282.7	7043.7	8804.6
26	.346	.69	.04	.38	.73	.07	.42	.77	.11	0.7	1.5	2.2	3.0	3.7
27	.343	.69	.03	.37	.71	.06	.40	.75	.09	0.6	1.1	1.7	2.3	2.9
28	.340	.68	.02	.36	.70	.04	.38	.72	.06	0.4	0.8	1.2	1.7	2.0
29	.337	.68	.01	.35	.68	.03	.36	.70	.04	0.3	0.4	0.7	1.0	1.2
18 30	29.334	58.67	88.00	117.34	146.67	176.01	205.34	234.68	264.01	1760.1	3520.1	5280.2	7040.3	8800.3
31	.332	.66	7.99	.33	.66	5.99	.32	.66	3.98	59.9	19.8	79.7	39.6	799.5
32	.329	.66	.99	.32	.64	.97	.30	.63	.96	9.7	9.4	9.2	8.9	8.6
33	.326	.65	.98	.30	.63	.96	.28	.61	.93	9.6	9.1	8.6	8.2	7.7
34	.323	.65	.97	.29	.61	.94	.26	.59	.91	9.4	8.7	8.1	7.5	6.9
18 35	29.320	58.64	87.96	117.28	146.60	175.92	205.24	234.56	263.88	1759.2	3518.4	5277.6	7036.8	8796.1
36	.317	.63	.95	.27	.59	.90	.22	.54	.85	9.0	8.1	7.1	6.1	5.2
37	.315	.63	.94	.26	.57	.89	.20	.52	.83	8.9	7.7	6.6	5.4	4.4
38	.312	.62	.94	.24	.56	.87	.18	.50	.80	8.7	7.4	6.1	4.8	3.5
39	.309	.62	.93	.23	.54	.86	.16	.47	.78	8.6	7.0	5.6	4.1	2.7
18 40	29.306	58.61	87.92	117.22	146.53	175.84	205.14	234.45	263.75	1758.4	3516.7	5275.1	7033.4	8791.8
41	.303	.60	.91	.21	.52	.82	.12	.43	.72	8.2	6.4	4.6	2.7	0.9
42	.300	.60	.90	.20	.50	.80	.10	.40	.70	8.0	6.0	4.1	2.0	90.1
43	.297	.59	.89	.19	.49	.79	.08	.38	.67	7.9	5.7	3.5	1.4	89.2
44	.295	.59	.88	.18	.47	.77	.06	.36	.65	7.7	5.3	3.0	0.7	8.4
18 45	29.292	58.58	87.87	117.16	146.46	175.75	205.04	234.33	263.62	1757.5	3515.0	5272.5	7030.0	8787.5
46	.289	.57	.87	.15	.45	.73	.02	.31	.59	7.3	4.7	2.0	29.3	6.6
47	.286	.57	.86	.14	.43	.71	5.00	.29	.57	7.1	4.3	1.5	8.6	5.8
48	.283	.56	.85	.13	.42	.70	4.98	.27	.54	7.0	4.0	0.9	7.9	4.9
49	.280	.56	.84	.12	.40	.68	.96	.24	.52	6.8	3.6	70.4	7.2	4.1
18 50	29.277	58.55	87.83	117.11	146.39	175.66	204.94	234.22	263.49	1756.6	3513.3	5269.9	7026.5	8783.2
51	.274	.55	.82	.10	.38	.64	.92	.20	.46	6.4	2.9	9.4	5.8	2.3
52	.271	.54	.81	.09	.36	.63	.90	.17	.44	6.3	2.6	8.9	-5.1	1.4
53	.269	.54	.81	.07	.35	.61	.88	.15	.41	6.1	2.2	8.3	4.4	80.6
54	.266	.53	.80	.06	.33	.59	.86	.13	.39	5.9	1.9	7.8	3.7	79.7
18 55	29.263	58.53	87.79	117.05	146.32	175.58	204.84	234.10	263.37	1755.8	3511.5	5267.3	7023.0	8778.8
56	.260	.52	.78	.04	.30	.56	.82	.08	.35	5.6	1.2	6.8	2.3	7.9
57	.257	.52	.77	.03	.29	.54	.80	.06	.31	5.4	0.8	6.3	1.6	7.1
58	.254	.51	.76	.01	.27	.52	.78	.04	.28	5.2	0.5	5.7	1.0	6.2
59	.251	.51	.75	7.00	.26	.51	.76	4.01	.26	5.1	10.1	5.2	20.3	5.4
18 60	29.248	58.50	87.74	116.99	146.24	175.49	204.74	233.99	263.23	1754.9	3509.8	5264.7	7019.6	8774.5

Lat.	Latitude 18° to 19°—Meridional arcs					Latitude 18°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 18°30'		Value of 1'	Continuous sums of minutes from latitude 18°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
18 00	30.743			1844.57			0 1	1 765.1	0.1
1	3	1	30.74	.58	1	1 844.6	0 2	3 530.2	0.3
2	3	2	61.49	.58	2	3 689.2	0 3	5 295.3	0.7
3	3	3	92.23	.58	3	5 533.7	0 4	7 060.4	1.3
4	3	4	122.98	.59	4	7 378.3			
18 05	30.743	5	153.72	1844.59	5	9 222.9	0 5	8 825.5	2.0
6	3	6	184.47	.59	6	11 067.5	0 6	10 590.6	2.9
7	3	7	215.21	.60	7	12 912.1	0 7	12 355.7	3.9
8	3	8	245.96	.60	8	14 756.7	0 8	14 120.8	5.1
9	3	9	276.70	.60	9	16 601.3	0 9	15 886.0	6.4
18 10	30.743	10	307.45	1844.61	10	18 445.9	0 10	17 651.1	7.9
11	3	1	338.19	.61	1	20 290.5	0 15	26 476.6	17.8
12	4	2	368.93	.61	2	22 135.1	0 20	35 302.1	31.7
13	4	3	399.68	.62	3	23 979.8	0 25	44 127.7	49.6
14	4	4	430.42	.62	4	25 824.4	0 30	52 953.2	71.4
18 15	30.744	15	461.17	1844.62	15	27 669.0	0 35	61 778.7	97.2
16	4	6	491.91	.62	6	29 513.6	0 40	70 604.2	126.9
17	4	7	522.66	.63	7	31 358.2	0 45	79 429.7	160.6
18	4	8	553.40	.63	8	33 202.9	0 50	88 255.1	198.3
19	4	9	584.15	.63	9	35 047.5	0 55	97 080.6	240.0
18 20	30.744	20	614.89	1844.64	20	36 892.2	1 00	105 906.0	285.6
21	4	1	645.64	.64	1	38 736.8	1 05	114 731.4	335.2
22	4	2	676.38	.64	2	40 581.4	1 10	123 556.8	388.7
23	4	3	707.12	.65	3	42 426.1	1 15	132 382.1	446.2
24	4	4	737.87	.65	4	44 270.7	1 20	141 207.5	507.7
18 25	30.744	25	768.61	1844.65	25	46 115.4	1 25	150 032.8	573.2
26	4	6	799.36	.66	6	47 960.0	1 30	158 858.0	642.6
27	4	7	830.10	.66	7	49 804.7	1 35	167 683.3	716.0
28	4	8	860.85	.66	8	51 649.4	1 40	176 508.5	793.3
29	4	9	891.59	.67	9	53 494.0	1 45	185 333.6	874.6
18 30	30.744	30	922.33	1844.67	30	55 338.7	1 50	194 158.8	959.9
31	5	1	953.08	.67	1	57 183.4	1 55	202 983.8	1 049.2
32	5	2	983.83	.68	2	59 028.1	2 00	211 809.1	1 142
33	5	3	1 014.57	.68	3	60 872.7	2 05	220 634.2	1 235
34	5	4	1 045.31	.68	4	62 717.4	2 10	229 459.3	1 328
18 35	30.745	35	1 076.06	1844.69	35	64 562.1	5 00	529 468	7 139
36	5	6	1 106.80	.69	6	66 406.8	6 00	635 328	10 280
37	5	7	1 137.55	.69	7	68 251.5	7 00	741 169	13 992
38	5	8	1 168.29	.70	8	70 096.2	8 00	846 989	18 275
39	5	9	1 199.04	.70	9	71 940.9	9 00	952 784	23 129
18 40	30.745	40	1 229.78	1844.70	40	73 785.6	10 00	1 058 552	28 553
41	5	1	1 260.53	.71	1	75 630.3	11 00	1 164 289	34 547
42	5	2	1 291.27	.71	2	77 475.0	12 00	1 269 991	41 112
43	5	3	1 322.02	.71	3	79 319.7	13 00	1 375 657	48 246
44	5	4	1 352.76	.72	4	81 164.4	14 00	1 481 283	55 950
18 45	30.745	45	1 383.50	1844.72	45	83 009.2	15 00	1 586 865	64 224
46	5	6	1 414.25	.72	6	84 853.9	16 00	1 692 402	73 067
47	5	7	1 444.99	.73	7	86 698.6	17 00	1 797 890	82 479
48	5	8	1 475.74	.73	8	88 543.3	18 00	1 903 324	92 461
49	6	9	1 506.48	.73	9	90 388.0	19 00	2 008 704	103 011
18 50	30.746	50	1 537.23	1844.74	50	92 232.8	20 00	2 114 025	114 128
51	6	1	1 567.97	.74	1	94 077.5	21 00	2 219 285	125 813
52	6	2	1 598.72	.74	2	95 922.3	22 00	2 324 480	138 066
53	6	3	1 629.46	.75	3	97 767.0	23 00	2 429 607	150 887
54	6	4	1 660.21	.75	4	99 611.8	24 00	2 534 664	164 274
18 55	30.746	55	1 690.95	1844.75	55	101 456.5	25 00	2 639 647	178 227
56	6	6	1 721.69	.76	6	103 301.3	26 00	2 744 554	192 746
57	6	7	1 752.44	.76	7	105 146.1	27 00	2 849 381	207 831
58	6	8	1 783.18	.76	8	106 990.8	28 00	2 954 124	223 482
59	6	9	1 813.93	.77	9	108 835.6	29 00	3 058 782	239 697
18 60	30.746	60	1 844.67	1844.77	60	110 680.4	30 00	3 163 350	256 476

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 19° to 20°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
19 00	29.248	58.50	87.74	116.99	146.24	175.49	204.74	233.99	263.23	1754.9	3509.8	5264.7	7019.6	8774.5
1	.245	.49	.74	.98	.23	.47	.72	.97	.20	4.7	9.4	4.2	8.9	3.6
2	.242	.49	.73	.97	.21	.45	.70	.94	.18	4.5	9.1	3.6	8.2	2.7
3	.240	.48	.72	.96	.20	.44	.68	.92	.15	4.4	8.7	3.1	7.5	1.9
4	.237	.48	.71	.95	.18	.42	.66	.89	.13	4.2	8.4	2.5	6.8	1.0
19 05	29.234	58.47	87.70	116.93	146.17	175.40	204.63	233.87	263.10	1754.0	3508.0	5262.0	7016.1	8870.1
6	.231	.46	.69	.92	.16	.33	.61	.85	.07	3.8	7.7	1.5	5.4	69.2
7	.228	.46	.68	.91	.14	.36	.59	.82	.05	3.6	7.3	1.0	4.7	8.3
8	.225	.45	.68	.90	.13	.35	.57	.80	.02	3.5	7.0	60.4	4.0	7.5
9	.222	.45	.67	.89	.11	.33	.55	.77	63.00	3.3	6.6	59.9	3.3	6.6
19 10	29.219	58.44	87.66	116.88	146.10	175.31	204.53	233.75	262.97	1753.1	3506.3	5259.4	7012.6	8765.7
11	.216	.43	.65	.87	.09	.29	.51	.73	.94	2.9	5.9	8.9	1.9	4.8
12	.213	.43	.64	.86	.07	.28	.49	.70	.92	2.8	5.6	8.4	1.2	3.9
13	.210	.42	.63	.84	.06	.26	.47	.68	.89	2.6	5.2	7.8	10.4	3.1
14	.207	.42	.62	.83	.04	.24	.45	.66	.87	2.4	4.9	7.3	09.7	2.2
19 15	29.204	58.41	87.61	116.82	146.03	175.23	204.43	233.63	262.84	1752.3	3504.5	5256.8	7009.0	8761.3
16	.201	.40	.60	.81	.01	.21	.41	.61	.81	2.1	4.1	6.3	8.3	60.4
17	.198	.40	.60	.80	6.00	.19	.39	.59	.79	1.9	3.8	5.7	7.6	59.5
18	.196	.39	.59	.78	5.98	.17	.37	.57	.76	1.7	3.4	5.2	6.9	8.7
19	.193	.39	.58	.77	.97	.16	.35	.54	.74	1.6	3.1	4.6	6.2	7.8
19 20	29.190	58.38	87.57	116.76	145.95	175.14	204.33	233.52	262.71	1751.4	3502.7	5254.1	7005.5	8756.9
21	.187	.37	.56	.75	.94	.12	.31	.50	.68	1.2	2.4	3.6	4.8	6.0
22	.184	.37	.55	.74	.92	.10	.29	.47	.66	1.0	2.0	3.0	4.1	5.1
23	.181	.36	.54	.72	.91	.09	.27	.45	.63	0.9	1.7	2.5	3.3	4.2
24	.178	.36	.53	.71	.89	.07	.25	.42	.60	0.7	1.3	1.9	2.6	3.3
19 25	29.175	58.35	87.52	116.70	145.88	175.05	204.22	233.40	262.57	1750.5	3501.0	5251.4	7001.9	8752.4
26	.172	.34	.52	.69	.86	.03	.20	.38	.55	0.3	0.6	0.9	1.2	1.5
27	.169	.34	.51	.68	.85	.01	.18	.35	.52	0.1	500.3	50.4	7000.5	50.6
28	.166	.33	.50	.66	.83	5.00	.16	.33	.49	50.0	499.9	49.8	6999.7	49.7
29	.163	.33	.49	.65	.82	4.98	.14	.30	.47	49.8	9.6	9.3	9.0	8.8
19 30	29.160	58.32	87.48	116.64	145.80	174.96	204.12	233.28	262.44	1749.6	3499.2	5248.8	6998.3	8747.9
31	.157	.31	.47	.63	.79	.94	.10	.26	.41	9.4	8.8	8.3	7.6	7.0
32	.154	.31	.46	.62	.77	.92	.08	.23	.39	9.2	8.5	7.7	6.9	6.1
33	.151	.30	.45	.60	.76	.91	.06	.21	.36	9.1	8.1	7.2	6.1	5.2
34	.148	.30	.44	.59	.74	.89	.04	.18	.33	8.9	7.8	6.6	5.4	4.3
19 35	29.145	58.29	87.43	116.58	145.73	174.87	204.01	233.16	262.30	1748.7	3497.4	5246.1	6994.7	8743.4
36	.142	.28	.43	.57	.71	.85	3.99	.14	.28	8.5	7.0	5.6	4.0	2.5
37	.139	.28	.42	.56	.70	.83	.97	.11	.25	8.3	6.7	5.0	3.3	1.6
38	.136	.27	.41	.54	.68	.82	.95	.09	.22	8.2	6.3	4.5	2.6	40.7
39	.133	.27	.40	.53	.67	.80	.93	.06	.20	8.0	6.0	3.9	1.9	39.8
19 40	29.130	58.26	87.39	116.52	145.65	174.78	203.91	233.04	262.17	1747.8	3495.6	5243.4	6991.2	8738.9
41	.127	.25	.38	.51	.64	.76	.89	3.02	.14	7.6	5.2	2.8	90.5	8.0
42	.124	.25	.37	.50	.62	.74	.87	2.99	.12	7.4	4.9	2.3	89.7	7.1
43	.121	.24	.36	.48	.61	.73	.85	.97	.09	7.3	4.5	1.7	9.0	6.2
44	.118	.24	.35	.47	.59	.71	.83	.94	.06	7.1	4.2	1.2	8.2	5.3
19 45	29.115	58.23	87.34	116.46	145.58	174.69	203.80	232.92	262.03	1746.9	3493.8	5240.6	6987.5	8734.4
46	.112	.22	.34	.45	.56	.67	.78	.90	2.01	6.7	3.4	40.1	6.8	3.5
47	.109	.22	.33	.44	.55	.65	.76	.87	1.98	6.5	3.0	39.5	6.1	2.6
48	.106	.21	.32	.42	.53	.64	.74	.85	.95	6.4	2.7	9.0	5.3	1.7
49	.103	.21	.31	.41	.52	.62	.72	.82	.93	6.2	2.3	8.4	4.6	30.8
19 50	29.100	58.20	87.30	116.40	145.50	174.60	203.70	232.80	261.90	1746.0	3491.9	5237.9	6983.9	8729.9
51	.097	.19	.29	.39	.49	.58	.68	.78	.87	5.8	1.5	7.4	3.2	9.0
52	.094	.19	.28	.38	.47	.56	.66	.75	.84	5.6	1.2	6.8	2.4	8.1
53	.090	.18	.27	.36	.46	.54	.63	.73	.82	5.4	0.8	6.3	1.7	7.1
54	.087	.18	.26	.35	.44	.52	.61	.70	.79	5.2	0.5	5.7	0.9	6.2
19 55	29.084	58.17	87.25	116.34	145.43	174.51	203.59	232.68	261.76	1745.1	3490.1	5235.2	6980.2	8725.3
56	.081	.16	.24	.33	.41	.49	.57	.65	.73	4.9	89.7	4.6	79.5	4.4
57	.078	.16	.24	.32	.40	.47	.55	.63	.70	4.7	9.4	4.1	8.8	3.5
58	.075	.15	.23	.30	.38	.45	.52	.60	.68	4.5	9.0	3.5	8.0	2.5
59	.072	.15	.22	.29	.37	.43	.50	.58	.65	4.3	8.7	3.0	7.3	1.6
19 60	29.069	58.14	87.21	116.28	145.35	174.41	203.48	232.55	261.62	1744.1	3488.3	5232.4	6976.6	8720.7

Lat.	Latitude 19° to 20°—Meridional arcs						Latitude 19°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 19°30'		Value of 1'	Continuous sums of minutes from latitude 19°00'		Longitude	X	Y
		Meters	"		Meters	'			
19 00	30.746			1844.77			0 1	1 754.9	0.1
1	6	1	30.75	.77	1	1 844.8	0 2	3 509.8	0.3
2	6	2	61.50	.78	2	3 689.5	0 3	5 204.7	0.7
3	6	3	92.24	.78	3	5 534.3	0 4	7 019.6	1.3
4	6	4	122.99	.78	4	7 379.1			
19 05	30.746	5	153.74	1844.79	5	9 223.9	0 5	8 774.5	2.1
6	6	6	184.49	.79	6	11 068.7	0 6	10 529.3	3.0
7	7	7	215.24	.79	7	12 913.5	0 7	12 284.2	4.1
8	7	8	245.98	.80	8	14 758.3	0 8	14 039.1	5.3
9	7	9	276.73	.80	9	16 603.1	0 9	15 794.0	6.7
19 10	30.747	10	307.48	1844.80	10	18 447.9	0 10	17 548.9	8.3
11	7	1	338.23	.81	1	20 292.7	0 15	26 323.4	18.7
12	7	2	368.97	.81	2	22 137.5	0 20	35 097.8	33.2
13	7	3	399.72	.81	3	23 982.3	0 25	43 872.3	51.9
14	7	4	430.47	.82	4	25 827.1	0 30	52 646.7	74.8
19 15	30.747	15	461.22	1844.82	15	27 672.0	0 35	61 421.1	101.8
16	7	6	491.97	.82	6	29 516.8	0 40	70 195.5	133.0
17	7	7	522.71	.83	7	31 361.6	0 45	78 969.9	168.3
18	7	8	553.46	.83	8	33 206.4	0 50	87 744.3	207.7
19	7	9	584.21	.83	9	35 051.3	0 55	96 518.7	251.4
19 20	30.747	20	614.96	1844.84	20	36 896.1	1 00	105 293.0	299.2
21	7	1	645.71	.84	1	38 741.0	1 05	114 067.3	351.1
22	7	2	676.45	.84	2	40 585.8	1 10	122 841.6	407.2
23	7	3	707.20	.85	3	42 430.6	1 15	131 615.9	467.4
24	8	4	737.95	.85	4	44 275.5	1 20	140 390.1	531.8
19 25	30.748	25	768.70	1844.85	25	46 120.4	1 25	149 164.3	600.4
26	8	6	799.45	.86	6	47 965.2	1 30	157 938.5	673.1
27	8	7	830.19	.86	7	49 810.1	1 35	166 712.6	750.0
28	8	8	860.94	.86	8	51 654.9	1 40	175 486.7	831.0
29	8	9	891.69	.87	9	53 499.8	1 45	184 260.7	916.1
19 30	30.748	30	922.44	1844.87	30	55 344.7	1 50	193 034.7	1 005.5
31	8	1	953.18	.87	1	57 189.6	1 55	201 808.7	1 099.0
32	8	2	983.93	.88	2	59 034.4	2 00	210 583	1 197
33	8	3	1 014.68	.88	3	60 879.3	2 05	219 357	1 295
34	8	4	1 045.43	.89	4	62 724.2	2 10	228 131	1 393
19 35	30.748	35	1 076.18	1844.89	35	64 569.1	2 15	236 905	1 491
36	8	6	1 106.92	.89	6	66 414.0	2 20	245 679	1 589
37	8	7	1 137.67	.90	7	68 258.9	2 25	254 453	1 687
38	8	8	1 168.42	.90	8	70 103.8	2 30	263 227	1 785
39	8	9	1 199.17	.90	9	71 948.7	2 35	272 001	1 883
19 40	30.748	40	1 229.92	1844.91	40	73 793.6	2 40	280 775	1 981
41	8	1	1 260.66	.91	1	75 638.5	2 45	289 549	2 079
42	9	2	1 291.41	.91	2	77 483.4	2 50	298 323	2 177
43	9	3	1 322.16	.92	3	79 328.3	2 55	307 097	2 275
44	9	4	1 352.91	.92	4	81 173.3	3 00	315 871	2 373
19 45	30.749	45	1 383.66	1844.92	45	83 018.2	3 05	324 645	2 471
46	9	6	1 414.40	.93	6	84 863.1	3 10	333 419	2 569
47	9	7	1 445.15	.93	7	86 708.0	3 15	342 193	2 667
48	9	8	1 475.90	.93	8	88 553.0	3 20	350 967	2 765
49	9	9	1 506.65	.94	9	90 397.9	3 25	359 741	2 863
19 50	30.749	50	1 537.39	1844.94	50	92 242.8	3 30	368 515	2 961
51	9	1	1 568.14	.94	1	94 087.8	3 35	377 289	3 059
52	9	2	1 598.89	.95	2	95 932.7	3 40	386 063	3 157
53	9	3	1 629.64	.95	3	97 777.7	3 45	394 837	3 255
54	9	4	1 660.39	.95	4	99 622.6	3 50	403 611	3 353
19 55	30.749	55	1 691.13	1844.96	55	101 467.6	3 55	412 385	3 451
56	9	6	1 721.88	.96	6	103 312.6	4 00	421 159	3 549
57	9	7	1 752.63	.97	7	105 157.5	4 05	429 933	3 647
58	49	8	1 783.38	.97	8	107 002.5	4 10	438 707	3 745
59	50	9	1 814.13	.97	9	108 847.5	4 15	447 481	3 843
19 60	30.750	60	1 844.87	1844.98	60	110 692.4	4 20	456 255	3 941

Latitude 20° to 21°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
20 00	29.069	58.14	87.21	116.28	145.35	174.41	203.48	232.55	261.62	1744.1	3488.3	5232.4	6976.6	8720.7
1	.066	.13	.20	.27	.33	.39	.46	.53	.59	3.9	7.9	1.9	5.9	19.8
2	.063	.13	.19	.25	.32	.37	.44	.50	.57	3.7	7.5	1.3	5.1	8.9
3	.060	.12	.18	.24	.30	.36	.42	.48	.54	3.6	7.2	0.8	4.4	7.9
4	.057	.12	.17	.23	.29	.34	.40	.45	.51	3.4	6.8	30.2	3.6	7.0
20 05	29.054	58.11	87.16	116.21	145.27	174.32	203.37	232.43	261.48	1743.2	3486.4	5229.9	6972.9	8716.1
6	.051	.10	.15	.20	.25	.30	.35	.41	.46	3.0	6.0	9.1	2.2	5.2
7	.048	.10	.14	.19	.24	.28	.33	.38	.43	2.8	5.7	8.6	1.4	4.3
8	.044	.09	.13	.18	.22	.27	.31	.36	.40	2.7	5.3	8.0	70.7	3.3
9	.041	.09	.12	.16	.21	.25	.29	.33	.38	2.5	5.0	7.5	69.9	2.4
20 10	29.038	58.08	87.12	116.15	145.19	174.23	203.27	232.31	261.35	1742.3	3484.6	5226.9	6969.2	8711.5
11	.035	.07	.11	.14	.18	.21	.25	.29	.32	2.1	4.2	6.3	8.5	10.6
12	.032	.07	.10	.13	.16	.19	.23	.26	.29	1.9	3.8	5.8	7.7	9.7
13	.029	.06	.09	.11	.15	.17	.20	.24	.27	1.7	3.5	5.2	7.0	8.7
14	.026	.05	.08	.10	.13	.16	.18	.21	.24	1.6	3.1	4.7	6.2	7.8
20 15	29.023	58.04	87.07	116.09	145.12	174.14	203.16	232.19	261.21	1741.4	3482.7	5224.1	6965.5	8706.9
16	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.3	3.5	4.8	6.0
17	.017	.03	.05	.07	.09	.10	.12	.14	.15	1.0	2.0	3.0	4.0	5.0
18	.014	.02	.04	.05	.07	.08	.09	.11	.13	0.8	1.7	2.4	3.3	4.1
19	.010	.02	.03	.04	.06	.06	.07	.09	.10	0.6	1.3	1.9	2.5	3.1
20 20	29.007	58.01	87.02	116.03	145.04	174.04	203.05	232.06	261.07	1740.4	3480.9	5221.3	6961.8	8702.2
21	.004	.00	.01	.02	.02	.02	.03	.04	.04	0.2	0.5	0.7	1.0	1.3
22	9.001	8.00	7.00	6.00	5.01	4.00	3.01	2.01	1.01	40.0	80.1	20.2	60.3	700.3
23	8.993	7.99	6.99	5.99	4.99	3.99	2.98	1.99	0.99	39.9	79.8	19.6	59.5	699.4
24	.995	.99	.98	.98	.98	.97	.96	.96	.96	9.7	9.4	9.1	8.8	8.4
20 25	28.992	57.98	86.97	115.96	144.96	173.95	202.94	231.94	260.93	1739.5	3479.0	5218.5	6958.0	8697.5
26	.989	.97	.97	.95	.94	.93	.92	.91	.90	9.3	8.6	7.9	7.3	6.6
27	.986	.97	.96	.94	.93	.91	.90	.89	.87	9.1	8.2	7.4	6.5	5.7
28	.982	.96	.95	.93	.91	.90	.87	.86	.85	9.0	7.9	6.8	5.8	4.7
29	.979	.96	.94	.91	.90	.88	.85	.84	.82	8.8	7.5	6.3	5.0	3.8
20 30	28.976	57.95	86.93	115.90	114.88	173.86	202.83	231.81	260.79	1738.6	3477.1	5215.7	6954.3	8692.9
31	.973	.94	.92	.89	.86	.84	.81	.79	.76	8.4	6.7	5.1	3.5	1.9
32	.970	.94	.91	.88	.85	.82	.79	.76	.73	8.2	6.4	4.6	2.8	1.0
33	.967	.93	.90	.86	.83	.80	.76	.74	.70	8.0	6.0	4.0	2.0	90.0
34	.964	.93	.89	.85	.82	.78	.74	.71	.67	7.8	5.7	3.5	1.3	89.1
20 35	28.960	57.92	86.88	115.84	144.80	173.76	202.72	231.69	260.65	1737.6	3475.3	5212.9	6950.5	8688.1
36	.957	.91	.87	.83	.78	.74	.70	.66	.62	7.4	4.9	2.3	49.7	7.2
37	.954	.91	.86	.82	.77	.72	.68	.64	.59	7.2	4.5	1.8	9.0	6.2
38	.951	.90	.85	.80	.75	.71	.65	.61	.56	7.1	4.2	1.2	8.2	5.3
39	.948	.90	.84	.79	.74	.69	.63	.59	.53	6.9	3.8	0.7	7.5	4.3
20 40	28.945	57.89	86.83	115.78	144.72	173.67	202.61	231.56	260.50	1736.7	3473.4	5210.1	6946.7	8683.4
41	.942	.88	.82	.77	.71	.65	.59	.53	.47	6.5	3.0	0.9	5.9	2.5
42	.938	.88	.81	.75	.69	.63	.57	.51	.44	6.3	2.6	8.9	5.2	1.5
43	.935	.87	.81	.74	.68	.61	.54	.48	.42	6.1	2.3	8.4	4.4	80.6
44	.932	.87	.80	.73	.66	.59	.52	.46	.39	5.9	1.9	7.8	3.7	79.6
20 45	28.929	57.86	86.79	115.71	144.65	173.57	202.50	231.43	260.36	1735.7	3471.5	5207.2	6942.9	8678.7
46	.926	.85	.78	.70	.63	.55	.48	.40	.33	5.5	1.1	6.6	2.1	7.7
47	.923	.85	.77	.69	.62	.54	.46	.38	.30	5.4	0.7	6.1	1.4	6.8
48	.919	.84	.76	.68	.60	.52	.43	.35	.28	5.2	0.4	5.5	40.6	5.8
49	.916	.84	.75	.66	.59	.50	.41	.33	.25	5.0	70.0	5.0	39.9	4.9
20 50	28.913	57.83	86.74	115.65	144.57	173.48	202.39	231.30	260.22	1734.8	3469.6	5204.4	6939.1	8673.9
51	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	9.2	3.8	8.3	2.9
52	.907	.82	.72	.62	.54	.44	.35	.25	.16	4.4	8.8	3.2	7.6	2.0
53	.903	.81	.71	.61	.52	.42	.32	.23	.13	4.2	8.5	2.7	6.8	1.0
54	.900	.80	.70	.60	.51	.40	.30	.20	.10	4.0	8.1	2.1	6.1	70.1
20 55	28.897	57.79	86.69	115.58	144.49	173.38	202.28	231.18	260.07	1733.8	3467.7	5201.5	6935.3	8669.1
56	.894	.79	.68	.57	.47	.36	.26	.15	.05	3.6	7.3	0.9	4.5	8.1
57	.891	.78	.67	.56	.46	.34	.24	.13	60.02	3.4	6.9	200.3	3.8	7.2
58	.887	.77	.66	.55	.44	.33	.21	.10	59.99	3.3	6.5	199.8	3.1	6.2
59	.884	.77	.65	.53	.43	.31	.19	.08	59.96	3.1	6.1	9.2	2.3	5.3
20 60	28.881	57.76	86.64	115.52	144.41	173.29	202.17	231.05	259.93	1732.9	3465.7	5198.6	6931.5	8664.3

Lat.	Latitude 20° to 21°—Meridional arcs						Latitude 20°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 20°30'		Value of 1'	Continuous sums of minutes from latitude 20°00'		Longitude	X	Y
		Meters	"		Meters	'			
20 00	30.750			1844.98			0 1	1 744.1	0.1
1	0	1	30.75	.98	1	1 845.0	0 2	3 488.3	0.3
2	0	2	61.50	.98	2	3 690.0	0 3	5 232.4	0.8
3	0	3	92.25	.99	3	5 534.9	0 4	6 976.6	1.4
4	0	4	123.01	.99	4	7 379.9			
20 05	30.750	5	153.76	1844.99	5	9 224.9	0 5	8 720.7	2.2
6	0	6	184.51	5.00	6	11 069.9	0 6	10 464.9	3.1
7	0	7	215.26	.00	7	12 914.9	0 7	12 209.0	4.3
8	0	8	246.01	.00	8	14 759.9	0 8	13 953.1	5.6
9	0	9	276.76	.01	9	16 604.9	0 9	15 697.3	7.0
20 10	30.750	10	307.51	1845.01	10	18 450.0	0 10	17 441.4	8.7
11	0	1	338.27	.01	1	20 295.0	0 15	26 162.1	19.5
12	0	2	369.02	.02	2	22 140.0	0 20	34 882.8	34.7
13	0	3	399.77	.02	3	23 985.0	0 25	43 603.5	54.2
14	0	4	430.52	.02	4	25 830.0	0 30	52 324.2	78.1
20 15	30.750	15	461.27	1845.03	15	27 675.1	0 35	61 044.9	106.3
16	1	6	492.02	.03	6	29 520.1	0 40	69 765.6	138.8
17	1	7	522.77	.04	7	31 365.1	0 45	78 486.2	175.7
18	1	8	553.53	.04	8	33 210.2	0 50	87 206.9	216.9
19	1	9	584.28	.04	9	35 055.2	0 55	95 927.5	262.5
20 20	30.751	20	615.03	1845.05	20	36 900.3	1 00	104 648.0	312.3
21	1	1	645.78	.05	1	38 745.3	1 05	113 368.6	366.6
22	1	2	676.53	.05	2	40 590.4	1 10	122 089.1	425.1
23	1	3	707.28	.06	3	42 435.4	1 15	130 809.6	488.0
24	1	4	738.03	.06	4	44 280.5	1 20	139 530.1	555.3
20 25	30.751	25	768.79	1845.06	25	46 125.5	1 25	148 250.5	626.8
26	1	6	799.54	.07	6	47 970.6	1 30	156 970.9	702.8
27	1	7	830.29	.07	7	49 815.7	1 35	165 691.3	783.0
28	1	8	861.04	.07	8	51 660.8	1 40	174 411.6	867.6
29	1	9	891.79	.08	9	53 505.8	1 45	183 131.8	956.5
20 30	30.751	30	922.54	1845.08	30	55 350.9	1 50	191 852.1	1 049.8
31	1	1	953.29	.09	1	57 196.0	1 55	200 572.3	1 147.4
32	1	2	984.04	.09	2	59 041.1	2 00	209 292	1 249
33	2	3	1 014.80	.09	3	60 886.2	2 05	218 012	1 351
34	2	4	1 045.55	.10	4	62 731.3	2 10	226 732	1 453
20 35	30.752	35	1 076.30	1845.10	35	64 576.4	2 15	235 453	1 555
36	2	6	1 107.05	.10	6	66 421.5	2 20	244 174	1 657
37	2	7	1 137.80	.11	7	68 266.6	2 25	252 895	1 759
38	2	8	1 168.55	.11	8	70 111.7	2 30	261 616	1 861
39	2	9	1 199.30	.11	9	71 956.8	2 35	270 337	1 963
20 40	30.752	40	1 230.06	1845.12	40	73 801.9	2 40	279 058	2 065
41	2	1	1 260.81	.12	1	75 647.1	2 45	287 779	2 167
42	2	2	1 291.56	.12	2	77 492.2	2 50	296 500	2 269
43	2	3	1 322.31	.13	3	79 337.3	2 55	305 221	2 371
44	2	4	1 353.06	.13	4	81 182.4	3 00	313 942	2 473
20 45	30.752	45	1 383.81	1845.14	45	83 027.6	3 05	322 663	2 575
46	2	6	1 414.56	.14	6	84 872.7	3 10	331 384	2 677
47	2	7	1 445.32	.14	7	86 717.9	3 15	340 105	2 779
48	2	8	1 476.07	.15	8	88 563.0	3 20	348 826	2 881
49	2	9	1 506.82	.15	9	90 408.2	3 25	357 547	2 983
20 50	30.753	50	1 537.57	1845.15	50	92 253.3	3 30	366 268	3 085
51	3	1	1 568.32	.16	1	94 098.5	3 35	374 989	3 187
52	3	2	1 599.07	.16	2	95 943.6	3 40	383 710	3 289
53	3	3	1 629.82	.16	3	97 788.8	3 45	392 431	3 391
54	3	4	1 660.58	.17	4	99 634.0	3 50	401 152	3 493
20 55	30.753	55	1 691.33	1845.17	55	101 479.1	3 55	409 873	3 595
56	3	6	1 722.08	.18	6	103 324.3	4 00	418 594	3 697
57	3	7	1 752.83	.18	7	105 169.5	4 05	427 315	3 799
58	3	8	1 783.58	.18	8	107 014.7	4 10	436 036	3 901
59	3	9	1 814.33	.19	9	108 859.9	4 15	444 757	4 003
20 60	30.753	60	1 845.08	1845.19	60	110 705.1	4 20	453 478	4 105

Latitude 21° to 22°—Arcs of the parallel in meters														
Lat.	1"	2"	3"	4"	5"	6"	7"	8"	9"	1'	2'	3'	4'	5'
21 00	28.881	57.76	86.64	115.52	144.41	173.29	202.17	231.05	259.93	1732.9	3465.7	5198.6	6931.5	8664.3
1	.878	.75	.63	.51	.39	.27	.15	.02	.90	2.7	5.3	8.0	30.7	3.3
2	.875	.75	.62	.50	.38	.25	.12	1.00	.87	2.5	4.9	7.4	29.9	2.4
3	.871	.74	.61	.48	.36	.23	.10	0.97	.84	2.3	4.6	6.9	29.2	1.4
4	.868	.74	.60	.47	.34	.21	.08	.95	.81	2.1	4.2	6.3	28.4	60.5
21 05	28.865	57.73	86.59	115.46	144.32	173.19	202.05	230.92	259.79	1731.9	3463.8	5195.7	6927.6	8659.5
6	.862	.72	.59	.45	.31	.17	.03	.89	.76	1.7	3.4	5.1	6.8	8.5
7	.859	.72	.58	.44	.29	.15	2.01	.87	.73	1.5	3.0	4.5	6.0	7.6
8	.855	.71	.57	.42	.27	.13	1.99	.84	.70	1.3	2.7	4.0	5.3	6.6
9	.852	.71	.56	.41	.26	.11	.96	.82	.67	1.1	2.3	3.4	4.5	5.7
21 10	28.849	57.70	86.55	115.40	144.24	173.09	201.94	230.79	259.64	1730.9	3461.9	5192.8	6923.7	8654.7
11	.846	.69	.54	.39	.22	.07	.92	.76	.61	0.7	1.5	2.2	2.9	3.7
12	.842	.69	.53	.37	.21	.05	.90	.74	.58	0.5	1.1	1.6	2.1	2.7
13	.839	.68	.52	.36	.19	.04	.87	.71	.55	0.4	0.7	1.1	1.4	1.8
14	.836	.67	.51	.35	.18	.02	.85	.69	.52	0.2	60.3	90.5	20.6	50.8
21 15	28.833	57.66	86.50	115.34	144.16	173.00	201.83	230.66	259.50	1730.0	3459.8	5189.9	6919.8	8649.8
16	.829	.66	.49	.32	.14	2.98	.81	.63	.47	29.8	9.4	9.3	9.0	8.8
17	.826	.65	.48	.31	.13	.96	.79	.61	.44	9.6	9.1	8.7	8.3	7.9
18	.823	.64	.47	.30	.11	.94	.76	.58	.41	9.4	8.7	8.2	7.5	6.9
19	.820	.64	.46	.28	.10	.92	.74	.56	.38	9.2	8.4	7.6	6.8	6.0
21 20	28.817	57.63	86.45	115.27	144.08	172.90	201.72	230.53	259.35	1729.0	3458.0	5187.0	6916.0	8645.0
21	.813	.62	.44	.26	.06	.88	.70	.50	.32	8.8	7.6	6.4	5.2	4.0
22	.810	.62	.43	.24	.05	.86	.67	.48	.29	8.6	7.2	5.8	4.4	3.0
23	.807	.61	.42	.23	.03	.84	.65	.45	.26	8.4	6.8	5.2	3.6	2.1
24	.804	.61	.41	.22	.02	.82	.63	.43	.23	8.2	6.4	4.6	2.8	1.1
21 25	28.800	57.60	86.40	115.21	144.00	172.80	201.60	230.40	259.21	1728.0	3456.0	5184.0	6912.0	8640.1
26	.797	.59	.39	.19	3.98	.78	.58	.37	.18	7.8	5.6	3.4	1.2	39.1
27	.794	.59	.38	.18	.97	.76	.56	.35	.15	7.6	5.2	2.8	10.4	8.1
28	.791	.58	.37	.17	.95	.74	.54	.32	.12	7.4	4.9	2.3	09.7	7.2
29	.787	.58	.36	.15	.94	.72	.51	.30	.09	7.2	4.5	1.7	8.9	6.2
21 30	28.784	57.57	86.35	115.14	143.92	172.70	201.49	230.27	259.06	1727.0	3454.1	5181.1	6908.1	8635.2
31	.781	.56	.34	.13	.90	.68	.47	.24	.03	6.8	3.7	80.5	7.3	4.2
32	.777	.56	.33	.11	.89	.66	.44	.22	9.00	6.6	3.3	79.9	6.5	3.2
33	.774	.55	.32	.10	.87	.64	.42	.19	8.97	6.4	2.9	9.3	5.8	2.2
34	.771	.54	.31	.08	.85	.62	.40	.17	.94	6.2	2.5	8.7	5.0	1.2
21 35	28.767	57.53	86.30	115.07	143.83	172.60	201.37	230.14	258.91	1726.0	3452.1	5178.1	6904.2	8630.2
36	.764	.53	.29	.06	.82	.58	.35	.11	.88	5.8	1.7	7.5	3.4	29.2
37	.761	.52	.28	.04	.80	.56	.33	.09	.85	5.6	1.3	6.9	2.6	8.2
38	.758	.51	.27	.03	.78	.55	.31	.06	.82	5.5	0.9	6.4	1.8	7.3
39	.754	.51	.26	.01	.77	.53	.28	.04	.79	5.3	0.5	5.8	1.0	6.3
21 40	28.751	57.50	86.25	115.00	143.75	172.51	201.26	230.01	258.76	1725.1	3450.1	5175.2	6900.2	8625.3
41	.748	.49	.24	4.99	.73	.49	.24	29.98	.73	4.9	49.7	4.6	899.4	4.3
42	.744	.49	.23	.97	.71	.47	.21	.96	.70	4.7	9.3	4.0	8.6	3.3
43	.741	.48	.22	.96	.69	.45	.19	.93	.67	4.5	8.9	3.4	7.8	2.3
44	.738	.48	.21	.95	.67	.43	.16	.90	.64	4.3	8.5	2.8	7.0	1.3
21 45	28.734	57.47	86.20	114.94	143.66	172.41	201.14	229.87	258.61	1724.1	3448.1	5172.2	6896.2	8620.3
46	.731	.46	.19	.92	.65	.39	.12	.85	.58	3.9	7.7	1.6	5.4	19.3
47	.728	.46	.18	.91	.64	.37	.09	.83	.55	3.7	7.3	1.0	4.6	8.3
48	.724	.45	.17	.90	.62	.35	.07	.79	.52	3.5	6.9	70.4	3.9	7.3
49	.721	.45	.16	.88	.61	.33	.04	.77	.49	3.3	6.5	69.8	3.1	6.3
21 50	28.718	57.44	86.15	114.87	143.59	172.31	201.02	229.74	258.46	1723.1	3446.1	5169.2	6892.3	8615.3
51	.714	.43	.14	.86	.57	.29	1.00	.71	.43	2.9	5.7	8.6	1.5	4.3
52	.711	.43	.13	.84	.56	.27	0.97	.69	.40	2.7	5.3	8.0	90.7	3.3
53	.708	.42	.12	.83	.54	.25	.95	.66	.37	2.5	4.9	7.4	89.9	2.3
54	.704	.41	.11	.82	.52	.23	.93	.64	.34	2.3	4.5	6.8	9.1	1.3
21 55	28.701	57.40	86.10	114.80	143.50	172.21	200.90	229.61	258.31	1722.1	3444.1	5166.2	6888.3	8610.3
56	.698	.40	.09	.79	.49	.19	.88	.58	.28	1.9	3.7	5.6	7.5	09.3
57	.694	.39	.08	.78	.47	.17	.86	.56	.25	1.7	3.3	5.0	6.7	8.3
58	.691	.38	.07	.77	.45	.15	.84	.53	.22	1.5	2.9	4.4	5.9	7.3
59	.688	.38	.06	.75	.44	.13	.81	.51	.19	1.3	2.5	3.8	5.1	6.3
21 60	28.684	57.37	86.05	114.74	143.42	172.11	200.79	229.48	258.16	1721.1	3442.1	5163.2	6884.3	8605.3

Lat.	Latitude 21° to 22°—Meridional arcs					Latitude 21°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 21°30'		Value of 1'	Continuous sums of minutes from latitude 21°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
21 00	30.753			1845.19			0 1	1 732.9	0.1
1	3	1	30.76	.20	1	1 845.2	0 2	3 465.7	0.4
2	3	2	61.51	.20	2	3 690.4	0 3	5 198.6	0.8
3	3	3	92.27	.20	3	5 535.6	0 4	6 931.5	1.4
4	3	4	123.02	.21	4	7 380.8			
21 05	30.753	5	153.78	1845.21	5	9 226.0	0 5	8 664.3	2.2
6	4	6	184.53	.21	6	11 071.2	0 6	10 397.2	3.2
7	4	7	215.29	.22	7	12 916.4	0 7	12 130.0	4.4
8	4	8	246.04	.22	8	14 761.7	0 8	13 862.9	5.8
9	4	9	276.80	.23	9	16 606.9	0 9	15 595.8	7.3
21 10	30.754	10	307.55	1845.23	10	18 452.1	0 10	17 328.6	9.0
11	4	1	338.31	.23	1	20 297.3	0 15	25 993.0	20.3
12	4	2	369.06	.24	2	22 142.6	0 20	34 657.3	36.1
13	4	3	399.82	.24	3	23 987.8	0 25	43 321.6	56.4
14	4	4	430.57	.24	4	25 833.1	0 30	51 985.9	81.3
21 15	30.754	15	461.33	1845.25	15	27 678.3	0 35	60 650.2	110.7
16	4	6	492.08	.25	6	29 523.6	0 40	69 314.5	144.5
17	4	7	522.84	.25	7	31 368.8	0 45	77 978.7	182.9
18	4	8	553.59	.26	8	33 214.1	0 50	86 643.0	225.8
19	4	9	584.35	.26	9	35 059.3	0 55	95 307.2	273.2
21 20	30.754	20	615.10	1845.27	20	36 904.6	1 00	103 971.3	325.2
21	4	1	645.86	.27	1	38 749.9	1 05	112 635.5	381.6
22	5	2	676.61	.27	2	40 595.1	1 10	121 299.6	442.5
23	5	3	707.37	.28	3	42 440.4	1 15	129 963.7	503.0
24	5	4	738.12	.28	4	44 285.7	1 20	138 627.7	578.0
21 25	30.755	25	768.88	1845.28	25	46 131.0	1 25	147 291.8	652.5
26	5	6	799.63	.29	6	47 976.3	1 30	155 955.7	731.6
27	5	7	830.39	.29	7	49 821.5	1 35	164 619.7	815.1
28	5	8	861.14	.30	8	51 666.8	1 40	173 283.6	903.2
29	5	9	891.90	.30	9	53 512.1	1 45	181 947.4	995.8
21 30	30.755	30	922.65	1845.30	30	55 357.4	1 50	190 611.2	1 092.9
31	5	1	953.41	.31	1	57 202.7	1 55	199 274.9	1 194.5
32	5	2	984.16	.31	2	59 048.0	2 00	207 939	1 301
33	5	3	1 014.92	.31	3	60 893.4	2 05	311 898	2 926
34	5	4	1 045.67	.32	4	62 738.7	2 10	415 845	5 202
21 35	30.755	35	1 076.43	1845.32	35	64 584.0	2 15	519 775	8 128
36	5	6	1 107.18	.33	6	66 429.3	2 20	623 686	11 704
37	5	7	1 137.94	.33	7	68 274.6	2 25	727 572	15 930
38	6	8	1 168.69	.33	8	70 120.0	2 30	831 429	20 806
39	6	9	1 199.45	.34	9	71 965.3	2 35	935 254	26 331
21 40	30.756	40	1 230.20	1845.34	40	73 810.6	2 40	1 039 042	32 505
41	6	1	1 260.96	.34	1	75 656.0	2 45	1 142 790	39 323
42	6	2	1 291.71	.35	2	77 501.3	2 50	1 246 493	46 801
43	6	3	1 322.47	.35	3	79 346.7	2 55	1 350 147	54 922
44	6	4	1 353.22	.36	4	81 192.0	3 00	1 453 749	63 690
21 45	30.756	45	1 383.98	1845.36	45	83 037.4	3 05	1 557 294	73 107
46	6	6	1 414.73	.36	6	84 882.8	3 10	1 660 777	83 171
47	6	7	1 445.49	.37	7	86 728.1	3 15	1 764 195	93 882
48	6	8	1 476.24	.37	8	88 573.5	3 20	1 867 545	105 240
49	6	9	1 507.00	.37	9	90 418.9	3 25	1 970 822	117 244
21 50	30.756	50	1 537.75	1845.38	50	92 264.2	3 30	2 074 021	129 893
51	6	1	1 568.51	.38	1	94 109.6	3 35	2 177 139	143 188
52	6	2	1 599.26	.39	2	95 955.0	3 40	2 280 173	157 128
53	6	3	1 630.02	.39	3	97 800.4	3 45	2 383 117	171 712
54	7	4	1 660.77	.39	4	99 645.8	3 50	2 485 967	186 939
21 55	30.757	55	1 691.53	1845.40	55	101 491.2	3 55	2 588 720	202 809
56	7	6	1 722.28	.40	6	103 336.6	4 00	2 691 373	219 322
57	7	7	1 753.04	.40	7	105 182.0	4 05	2 793 920	236 476
58	7	8	1 783.79	.41	8	107 027.4	4 10	2 896 358	254 272
59	7	9	1 814.55	.41	9	108 872.8	4 15	2 998 682	272 708
21 60	30.757	60	1 845.30	1845.42	60	110 718.2	4 20	3 100 889	291 784

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 22° to 23°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
22 00	28.684	57.37	86.05	114.74	143.42	172.11	200.79	229.48	258.16	1721.1	3442.1	5163.2	6884.3	8605.3
1	.681	.36	.04	.73	.40	.09	.77	.45	.13	0.9	1.7	2.6	3.5	4.3
2	.673	.36	.03	.71	.39	.07	.74	.43	.10	0.7	1.3	2.0	2.7	3.3
3	.674	.35	.02	.70	.37	.05	.72	.40	.07	0.5	0.9	1.4	1.8	2.3
4	.671	.34	.01	.68	.35	.03	.69	.37	.04	0.3	0.5	0.8	1.0	1.3
22 05	28.668	57.33	86.00	114.67	143.33	172.01	200.67	229.35	258.01	1720.1	3440.1	5160.2	6880.2	8600.3
6	.664	.33	5.99	.66	.32	1.99	.65	.32	7.98	19.9	39.7	59.6	79.4	599.3
7	.661	.32	.98	.64	.30	.97	.62	.29	.95	9.7	9.3	9.0	8.6	8.3
8	.657	.31	.97	.63	.28	.94	.60	.26	.92	9.4	8.9	8.3	7.8	7.2
9	.654	.31	.96	.61	.27	.92	.57	.24	.89	9.2	8.5	7.7	7.0	6.2
22 10	28.651	57.30	85.95	114.60	143.25	171.90	200.55	229.21	257.86	1719.0	3438.1	5157.1	6876.2	8595.2
11	.647	.29	.94	.59	.23	.88	.53	.18	.83	8.8	7.7	6.5	5.4	4.2
12	.644	.29	.93	.57	.22	.86	.50	.16	.80	8.6	7.3	5.9	4.6	3.2
13	.641	.28	.92	.56	.20	.84	.48	.13	.77	8.4	6.9	5.3	3.7	2.2
14	.637	.27	.91	.55	.18	.82	.46	.10	.74	8.2	6.5	4.7	2.9	1.2
22 15	28.634	57.26	85.90	114.54	143.16	171.80	200.43	229.07	257.70	1718.0	3436.1	5154.1	6872.1	8590.1
16	.630	.26	.89	.52	.15	.78	.41	.05	.67	7.8	5.7	3.5	1.3	89.1
17	.627	.25	.88	.51	.13	.76	.39	9.02	.64	7.6	5.3	2.9	70.5	8.1
18	.624	.24	.87	.50	.11	.74	.37	8.99	.61	7.4	4.8	2.2	69.7	7.1
19	.620	.24	.86	.48	.10	.72	.34	.97	.58	7.2	4.4	1.6	8.9	6.1
22 20	28.617	57.23	85.85	114.47	143.08	171.70	200.32	228.94	257.55	1717.0	3434.0	5151.0	6868.1	8585.1
21	.613	.22	.84	.46	.06	.68	.30	.91	.52	6.8	3.6	50.4	7.3	4.0
22	.610	.22	.83	.44	.05	.66	.27	.88	.49	6.6	3.2	49.8	6.5	3.0
23	.607	.21	.82	.43	.03	.64	.25	.86	.46	6.4	2.8	9.2	5.6	2.0
24	.603	.21	.81	.41	.01	.62	.22	.83	.43	6.2	2.4	8.6	4.8	81.0
22 25	28.600	57.20	85.80	114.40	143.00	171.60	200.20	228.80	257.40	1716.0	3432.0	5148.0	6864.0	8579.9
26	.596	.19	.79	.39	2.98	.58	.18	.77	.37	5.8	1.6	7.4	3.2	8.9
27	.593	.19	.78	.37	.96	.56	.15	.74	.34	5.6	1.2	6.8	2.4	7.9
28	.590	.18	.77	.36	.94	.54	.13	.72	.31	5.4	0.7	6.1	1.5	6.9
29	.586	.18	.76	.34	.93	.52	.10	.69	.28	5.2	30.3	5.5	60.7	5.9
22 30	28.583	57.17	85.75	114.33	142.91	171.50	200.08	228.66	257.25	1715.0	3429.9	5144.9	6859.9	8574.8
31	.579	.16	.74	.32	.89	.48	.06	.63	.22	4.8	9.5	4.3	9.1	3.8
32	.576	.16	.73	.30	.88	.46	.03	.60	.19	4.6	9.1	3.7	8.3	2.7
33	.572	.15	.72	.29	.86	.43	200.01	.58	.16	4.3	8.7	3.0	7.4	1.7
34	.569	.14	.71	.27	.84	.41	199.98	.55	.13	4.1	8.3	2.4	6.6	70.7
22 35	28.566	57.13	85.70	114.26	142.82	171.39	199.96	228.52	257.09	1713.9	3427.9	5141.8	6855.8	8569.7
36	.562	.13	.69	.25	.81	.37	.94	.49	.06	3.7	7.5	1.2	5.0	8.6
37	.559	.12	.68	.23	.79	.35	.91	.46	.03	3.5	7.1	40.6	4.1	7.6
38	.555	.11	.67	.22	.77	.33	.89	.44	7.00	3.3	6.6	39.9	3.3	6.6
39	.552	.11	.66	.20	.76	.31	.86	.41	6.97	3.1	6.2	9.3	2.4	5.6
22 40	28.548	57.10	85.65	114.19	142.74	171.29	199.84	228.38	256.94	1712.9	3425.8	5138.7	6851.6	8564.5
41	.545	.09	.64	.18	.72	.27	.82	.35	.91	2.7	5.4	8.1	0.8	3.5
42	.541	.09	.62	.16	.71	.25	.79	.33	.88	2.5	5.0	7.5	50.0	2.4
43	.538	.08	.61	.15	.69	.23	.77	.30	.84	2.3	4.5	6.8	49.1	1.4
44	.535	.07	.60	.14	.67	.21	.74	.27	.81	2.1	4.1	6.2	8.3	60.4
22 45	28.531	57.06	85.59	114.12	142.66	171.19	199.72	228.25	256.78	1711.9	3423.7	5135.6	6847.5	8559.3
46	.528	.06	.58	.11	.64	.17	.70	.22	.75	1.7	3.3	5.0	6.7	8.3
47	.524	.05	.57	.10	.62	.15	.67	.19	.72	1.5	2.9	4.4	5.8	7.3
48	.521	.04	.56	.09	.60	.12	.65	.16	.68	1.2	2.5	3.7	5.0	6.2
49	.517	.04	.55	.07	.59	.10	.62	.14	.65	1.0	2.1	3.1	4.1	5.2
22 50	28.514	57.03	85.54	114.06	142.57	171.08	199.60	228.11	256.62	1710.8	3421.7	5132.5	6843.3	8554.1
51	.510	.02	.53	.05	.55	.06	.58	.08	.59	0.6	1.3	1.9	2.5	3.1
52	.507	.02	.52	.03	.53	.04	.55	.05	.56	0.4	0.9	1.2	1.6	2.0
53	.503	.01	.51	.02	.52	.02	.53	.03	.53	0.2	0.4	30.6	40.8	1.0
54	.500	57.00	.50	4.00	.50	1.00	.50	8.00	.50	10.0	20.0	29.9	39.9	50.0
22 55	28.496	56.99	85.49	113.99	142.48	170.98	199.48	227.97	256.46	1709.8	3419.6	5129.3	6839.1	8548.9
56	.493	.99	.48	.98	.46	.96	.45	.94	.43	9.6	9.2	8.7	8.3	7.9
57	.489	.98	.47	.96	.44	.94	.43	.91	.40	9.4	8.8	8.1	7.4	6.8
58	.486	.97	.46	.95	.43	.92	.40	.89	.37	9.2	8.3	7.4	6.5	5.8
59	.482	.97	.45	.93	.41	.89	.38	.86	.34	8.9	7.9	6.8	5.7	4.7
22 60	28.479	56.96	85.44	113.92	142.39	170.87	199.35	227.83	256.31	1708.7	3417.5	5126.2	6834.9	8543.7

Lat.	Latitude 22° to 23°—Meridional arcs					Latitude 22°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 22°30'		Value of 1'	Continuous sums of minutes from latitude 22°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
22 00	30.757			1845.42			0 1	1 721.1	0.1
1	7	1	30.76	.42	1	1 845.4	0 2	3 442.2	0.4
2	7	2	61.52	.42	2	3 690.8	0 3	5 163.2	0.8
3	7	3	92.28	.43	3	5 536.3	0 4	6 884.3	1.5
4	7	4	123.04	.43	4	7 381.7			
22 05	30.757	5	153.79	1845.44	5	9 227.1	0 5	8 605.4	2.3
6	7	6	184.55	.44	6	11 072.6	0 6	10 326.5	3.4
7	7	7	215.31	.44	7	12 918.0	0 7	12 047.5	4.6
8	7	8	246.07	.45	8	14 763.4	0 8	13 768.6	6.0
9	7	9	276.83	.45	9	16 608.9	0 9	15 489.7	7.6
22 10	30.758	10	307.59	1845.45	10	18 454.3	0 10	17 210.7	9.4
11	8	1	338.35	.46	1	20 299.8	0 15	25 816.0	21.1
12	8	2	369.11	.46	2	22 145.3	0 20	34 421.3	37.5
13	8	3	399.86	.47	3	23 990.7	0 25	43 026.6	58.6
14	8	4	430.62	.47	4	25 836.2	0 30	51 631.8	84.4
22 15	30.758	15	461.38	1845.47	15	27 681.7	0 35	60 237.1	114.9
16	8	6	492.14	.48	6	29 527.1	0 40	68 842.3	150.0
17	8	7	522.90	.48	7	31 372.6	0 45	77 447.6	189.9
18	8	8	553.66	.48	8	33 218.1	0 50	86 052.8	234.4
19	8	9	584.42	.49	9	35 063.6	0 55	94 657.9	283.7
22 20	30.758	20	615.18	1845.49	20	36 909.1	1 00	103 263.1	337.6
21	8	1	645.94	.50	1	38 754.6	1 05	111 868.2	396.2
22	8	2	676.69	.50	2	40 600.1	1 10	120 473.3	459.5
23	8	3	707.45	.50	3	42 445.6	1 15	129 078.3	527.5
24	8	4	738.21	.51	4	44 291.1	1 20	137 683.3	600.1
22 25	30.759	25	768.97	1845.51	25	46 136.6	1 25	146 288.3	677.5
26	9	6	799.73	.52	6	47 982.1	1 30	154 893.2	759.5
27	9	7	830.49	.52	7	49 827.6	1 35	163 498.1	846.3
28	9	8	861.25	.52	8	51 673.1	1 40	172 102.9	937.7
29	9	9	892.01	.53	9	53 518.7	1 45	180 707.7	1 033.8
22 30	30.759	30	922.77	1845.53	30	55 364.2	1 50	189 312.4	1 134.6
31	9	1	953.52	.53	1	57 209.7	1 55	197 917.1	1 240.1
32	9	2	984.28	.54	2	59 055.3	2 00	206 522	1 350
33	9	3	1 015.04	.54	3	60 900.8	2 05	309 772	3 037
34	9	4	1 045.80	.55	4	62 746.3	2 10	413 008	5 400
22 35	30.759	35	1 076.56	1845.55	35	64 591.9	5 00	516 227	8 438
36	9	6	1 107.32	.55	6	66 437.4	6 00	619 424	12 151
37	9	7	1 138.08	.56	7	68 283.0	7 00	722 595	16 538
38	9	8	1 168.84	.56	8	70 128.6	8 00	825 734	21 600
39	9	9	1 199.59	.57	9	71 974.1	9 00	928 838	27 336
22 40	30.759	40	1 230.35	1845.57	40	73 819.7	10 00	1 031 903	33 746
41	60	1	1 261.11	.57	1	75 665.3	11 00	1 134 923	40 829
42	0	2	1 291.87	.58	2	77 510.8	12 00	1 237 895	48 586
43	0	3	1 322.63	.58	3	79 356.4	13 00	1 340 814	57 016
44	0	4	1 353.39	.58	4	81 202.0	14 00	1 443 675	66 119
22 45	30.760	45	1 384.15	1845.59	45	83 047.6	15 00	1 546 475	75 894
46	0	6	1 414.91	.59	6	84 893.2	16 00	1 649 209	86 341
47	0	7	1 445.67	.60	7	86 738.8	17 00	1 751 873	97 459
48	0	8	1 476.42	.60	8	88 584.4	18 00	1 854 461	109 248
49	0	9	1 507.18	.60	9	90 430.0	19 00	1 956 970	121 708
22 50	30.760	50	1 537.94	1845.61	50	92 275.6	20 00	2 059 396	134 838
51	0	1	1 568.70	.61	1	94 121.2	21 00	2 161 733	148 637
52	0	2	1 599.46	.62	2	95 966.8	22 00	2 263 978	163 105
53	0	3	1 630.22	.62	3	97 812.4	23 00	2 366 126	178 241
54	0	4	1 660.98	.62	4	99 658.0	24 00	2 468 174	194 045
22 55	30.760	55	1 691.74	1845.63	55	101 503.7	25 00	2 570 116	210 515
56	1	6	1 722.50	.63	6	103 349.3	26 00	2 671 947	227 652
57	1	7	1 753.25	.64	7	105 194.9	27 00	2 773 664	245 454
58	1	8	1 784.01	.64	8	107 040.6	28 00	2 875 264	263 921
59	1	9	1 814.77	.64	9	108 886.2	29 00	2 976 740	283 051
22 60	30.761	60	1 845.53	1845.65	60	110 731.8	30 00	3 078 089	302 845

Latitude 23° to 24°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
23 00	28.470	56.96	85.44	113.92	142.39	170.87	199.35	227.83	256.31	1708.7	3417.5	5126.2	6834.9	8543.7
1	.475	.95	.43	.91	.37	.85	.33	.80	.28	8.5	7.1	5.6	4.1	2.6
2	.472	.95	.42	.89	.36	.83	.30	.77	.25	8.3	6.7	5.0	3.2	1.6
3	.468	.94	.41	.88	.34	.81	.28	.75	.22	8.1	6.2	4.3	2.4	40.5
4	.465	.93	.40	.86	.32	.79	.25	.72	.19	7.9	5.8	3.7	1.5	39.5
23 05	28.461	56.92	85.38	113.85	142.31	170.77	199.23	227.69	256.15	1707.7	3415.4	5123.1	6830.7	8538.4
6	.458	.92	.37	.84	.29	.75	.21	.66	.12	7.5	5.0	2.5	29.9	7.4
7	.454	.91	.36	.82	.27	.73	.18	.63	.09	7.3	4.6	1.8	9.0	6.3
8	.451	.90	.35	.81	.25	.71	.16	.61	.06	7.1	4.1	1.2	8.2	5.3
9	.447	.90	.34	.79	.24	.68	.13	.58	.03	6.8	3.7	20.5	7.3	4.2
23 10	28.444	56.89	85.33	113.78	142.22	170.66	199.11	227.55	256.00	1706.6	3413.3	5119.9	6826.5	8533.2
11	.440	.88	.32	.77	.20	.64	.09	.52	5.97	6.4	2.9	9.3	5.7	2.1
12	.437	.88	.31	.75	.18	.62	.06	.49	.94	6.2	2.5	8.6	4.8	1.1
13	.433	.87	.30	.74	.17	.60	.04	.47	.90	6.0	2.0	8.0	4.0	30.0
14	.430	.86	.29	.72	.15	.58	9.01	.44	.87	5.8	1.6	7.3	3.1	28.9
23 15	28.426	56.85	85.28	113.71	142.13	170.56	198.99	227.41	255.84	1705.6	3411.2	5116.7	6822.3	8527.9
16	.423	.85	.27	.69	.11	.54	.96	.38	.81	5.4	0.8	6.1	1.5	6.8
17	.419	.84	.26	.68	.09	.52	.94	.35	.78	5.2	10.3	5.4	20.6	5.8
18	.416	.83	.25	.66	.08	.49	.91	.33	.74	4.9	09.9	4.8	19.8	4.7
19	.412	.83	.24	.65	.06	.47	.89	.30	.71	4.7	9.4	4.1	8.9	3.6
23 20	28.409	56.82	85.23	113.63	142.04	170.45	198.86	227.27	255.68	1704.5	3409.0	5113.5	6818.1	8522.6
21	.405	.81	.22	.62	.02	.43	.84	.24	.65	4.3	8.6	2.9	7.2	1.5
22	.401	.81	.20	.60	2.01	.41	.81	.21	.62	4.1	8.2	2.2	6.4	20.4
23	.398	.80	.19	.59	1.99	.39	.79	.18	.58	3.9	7.7	1.6	5.5	19.4
24	.394	.79	.18	.57	.97	.37	.76	.15	.55	3.7	7.3	0.9	4.7	8.3
23 25	28.391	56.78	85.17	113.56	141.96	170.34	198.74	227.13	255.52	1703.4	3406.9	5110.3	6813.8	8517.2
26	.387	.78	.16	.55	.94	.32	.71	.10	.49	3.2	6.5	09.7	2.9	6.2
27	.384	.77	.15	.53	.92	.30	.69	.07	.46	3.0	6.1	9.0	2.1	5.1
28	.380	.76	.14	.52	.90	.28	.66	.04	.42	2.8	5.6	8.4	1.2	4.0
29	.377	.76	.13	.50	.89	.26	.64	7.01	.39	2.6	5.2	7.7	10.4	3.0
23 30	28.373	56.75	85.12	113.49	141.87	170.24	198.61	226.98	255.36	1702.4	3404.8	5107.1	6809.5	8511.9
31	.369	.74	.11	.48	.85	.22	.59	.92	.33	2.2	4.4	6.5	8.6	10.8
32	.366	.73	.10	.46	.83	.20	.56	.95	.29	2.0	3.9	5.8	7.8	09.8
33	.362	.73	.09	.45	.82	.17	.54	.90	.26	1.7	3.5	5.2	6.9	8.7
34	.359	.72	.08	.43	.80	.15	.51	.87	.23	1.5	3.0	4.5	6.1	7.6
23 35	28.355	56.71	85.06	113.42	141.78	170.13	198.49	226.84	255.19	1701.3	3402.6	5103.9	6805.2	8506.5
36	.352	.70	.05	.41	.76	.11	.46	.81	.16	1.1	2.2	3.3	4.3	5.5
37	.348	.69	.04	.39	.74	.09	.44	.78	.13	0.9	1.8	2.6	3.5	4.4
38	.344	.69	.03	.38	.73	.06	.41	.76	.10	0.6	1.3	2.0	2.6	3.3
39	.341	.68	.02	.36	.71	.04	.39	.73	.06	0.4	0.9	1.3	1.8	2.2
23 40	28.337	56.67	85.01	113.35	141.69	170.02	198.36	226.70	255.03	1700.2	3400.5	5100.7	6800.9	8501.2
41	.334	.66	5.00	.34	.67	70.00	.34	.67	5.00	700.0	400.1	100.0	800.0	500.1
42	.330	.66	4.99	.32	.65	69.98	.31	.64	4.97	699.8	399.6	5099.4	799.2	499.0
43	.326	.65	.98	.31	.64	.96	.29	.61	.93	9.6	9.2	8.7	8.3	7.9
44	.323	.64	.97	.29	.62	.94	.26	.58	.90	9.4	8.7	8.1	7.5	6.8
23 45	28.319	56.63	84.96	113.28	141.60	169.92	198.24	226.56	254.87	1699.2	3398.3	5097.4	6796.6	8495.8
46	.316	.63	.95	.26	.58	.89	.21	.53	.84	8.9	7.9	6.8	5.7	4.7
47	.312	.62	.94	.25	.56	.87	.19	.50	.81	8.7	7.4	6.1	4.9	3.6
48	.308	.61	.93	.23	.55	.85	.16	.47	.77	8.5	7.0	5.5	4.0	2.5
49	.305	.61	.91	.22	.53	.83	.14	.44	.74	8.3	6.5	4.8	3.2	1.4
23 50	28.301	56.60	84.90	113.20	141.51	169.81	198.11	226.41	254.71	1698.1	3396.1	5094.2	6792.3	8490.4
51	.298	.59	.89	.19	.49	.79	.08	.38	.68	7.9	5.7	3.5	1.4	89.3
52	.294	.59	.88	.17	.47	.77	.06	.35	.64	7.7	5.3	2.9	90.5	8.2
53	.290	.58	.87	.16	.45	.74	.03	.32	.61	7.4	4.8	2.2	89.7	7.1
54	.287	.57	.86	.14	.43	.72	8.01	.29	.58	7.2	4.4	1.6	8.8	6.0
23 55	28.283	56.56	84.85	113.13	141.42	169.70	197.98	226.27	254.54	1697.0	3394.0	5090.9	6787.9	8484.9
56	.279	.56	.84	.12	.40	.68	.95	.24	.51	6.8	3.6	90.3	7.0	3.8
57	.276	.55	.83	.10	.38	.66	.93	.21	.48	6.6	3.1	89.6	6.2	2.7
58	.272	.54	.82	.09	.36	.63	.90	.18	.45	6.3	2.7	9.0	5.3	1.6
59	.268	.54	.80	.07	.34	.61	.88	.15	.41	6.1	2.2	8.3	4.5	80.5
23 60	28.265	56.53	84.79	113.06	141.32	169.59	197.85	226.12	254.38	1695.9	3391.8	5087.7	6783.6	8479.5

Lat.	Latitude 23° to 24°—Meridional arcs				Latitude 23°—Coordinates of curvature for the polyconic projection				
	Value of 1''	Sums of seconds for middle latitude 23°30'		Value of 1'	Continuous sums of minutes from latitude 23°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
23 00	30.761			1845.65			0 1	1 708.7	0.1
1	1	1	30.76	.65	1	1 845.6	0 2	3 417.5	0.4
2	1	2	61.53	.66	2	3 691.3	0 3	5 126.2	0.9
3	1	3	92.29	.66	3	5 537.0	0 4	6 835.0	1.6
4	1	4	123.05	.66	4	7 382.6			
23 05	30.761	5	153.81	1845.67	5	9 228.3	0 5	8 543.7	2.4
6	1	6	184.58	.67	6	11 073.9	0 6	10 252.4	3.5
7	1	7	215.34	.67	7	12 919.6	0 7	11 961.2	4.8
8	1	8	246.10	.68	8	14 765.3	0 8	13 669.9	6.2
9	1	9	276.86	.68	9	16 611.0	0 9	15 378.6	7.9
23 10	30.761	10	307.63	1845.69	10	18 456.7	0 10	17 087.4	9.7
11	2	1	338.39	.69	1	20 302.3	0 15	25 631.0	21.8
12	2	2	369.15	.69	2	22 148.0	0 20	34 174.7	38.8
13	2	3	399.92	.70	3	23 993.7	0 25	42 718.4	60.7
14	2	4	430.68	.70	4	25 839.4	0 30	51 262.0	87.4
23 15	30.762	15	461.44	1845.71	15	27 685.1	0 35	59 805.7	118.9
16	2	6	492.20	.71	6	29 530.8	0 40	68 349.3	155.4
17	2	7	522.97	.71	7	31 376.6	0 45	76 892.8	196.6
18	2	8	553.73	.72	8	33 222.3	0 50	85 436.4	242.8
19	2	9	584.49	.72	9	35 068.0	0 55	93 979.9	293.7
23 20	30.762	20	615.26	1845.73	20	36 913.7	1 00	102 523.4	349.6
21	2	1	646.02	.73	1	38 759.4	1 05	111 066.9	410.3
22	2	2	676.78	.73	2	40 605.2	1 10	119 610.3	475.8
23	2	3	707.54	.74	3	42 450.9	1 15	128 153.7	546.2
24	2	4	738.31	.74	4	44 296.7	1 20	136 697.1	621.5
23 25	30.762	25	769.07	1845.75	25	46 142.4	1 25	145 240.4	701.6
26	2	6	799.83	.75	6	47 988.1	1 30	153 783.6	786.6
27	3	7	830.59	.75	7	49 833.9	1 35	162 326.8	876.4
28	3	8	861.36	.76	8	51 679.7	1 40	170 870.0	971.1
29	3	9	892.12	.76	9	53 525.4	1 45	179 413.1	1 070.6
23 30	30.763	30	922.88	1845.77	30	55 371.2	1 50	187 956.1	1 175.0
31	3	1	953.65	.77	1	57 216.9	1 55	196 499.1	1 284.2
32	3	2	984.41	.77	2	59 062.7	2 00	205 042	1 398
33	3	3	1 015.17	.78	3	60 908.5	2 05	307 551	3 146
34	3	4	1 045.93	.78	4	62 754.3	2 10	410 046	5 593
23 35	30.763	35	1 076.70	1845.79	35	64 600.1	5 00	512 522	8 730
36	3	6	1 107.46	.79	6	66 445.8	6 00	614 974	12 583
37	3	7	1 138.22	.79	7	68 291.6	7 00	717 397	17 126
38	3	8	1 168.99	.80	8	70 137.4	8 00	819 787	23 368
39	3	9	1 199.75	.80	9	71 983.2	9 00	922 139	28 307
23 40	30.763	40	1 230.51	1845.81	40	73 829.0	10 00	1 024 448	34 945
41	3	1	1 261.27	.81	1	75 674.8	11 00	1 126 709	42 280
42	4	2	1 292.04	.81	2	77 520.7	12 00	1 228 918	50 312
43	4	3	1 322.80	.82	3	79 366.5	13 00	1 331 070	59 041
44	4	4	1 353.56	.82	4	81 212.3	14 00	1 433 160	68 466
23 45	30.764	45	1 384.32	1845.83	45	83 058.1	15 00	1 535 183	78 588
46	4	6	1 415.09	.83	6	84 903.9	16 00	1 637 135	89 405
47	4	7	1 445.85	.83	7	86 749.8	17 00	1 739 011	100 917
48	4	8	1 476.61	.84	8	88 595.6	18 00	1 840 805	113 123
49	4	9	1 507.38	.84	9	90 441.5	19 00	1 942 514	126 023
23 50	30.764	50	1 538.14	1845.85	50	92 287.3	20 00	2 044 133	139 617
51	4	1	1 568.90	.85	1	94 133.2	21 00	2 145 657	153 903
52	4	2	1 599.66	.85	2	95 979.0	22 00	2 247 081	168 882
53	4	3	1 630.43	.86	3	97 824.9	23 00	2 348 400	184 552
54	4	4	1 661.19	.86	4	99 670.7	24 00	2 449 611	200 911
23 55	30.764	55	1 691.95	1845.87	55	101 516.6	25 00	2 550 707	217 960
56	5	6	1 722.72	.87	6	103 362.4	26 00	2 651 685	235 700
57	5	7	1 753.48	.87	7	105 208.3	27 00	2 752 540	254 127
58	5	8	1 784.24	.88	8	107 054.2	28 00	2 853 266	273 242
59	5	9	1 815.00	.88	9	108 900.1	29 00	2 953 859	293 043
23 60	30.765	60	1 845.77	1845.89	60	110 746.0	30 00	3 054 316	313 530

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 24° to 25°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
24 00	28.265	56.53	84.79	113.06	141.32	169.59	197.85	226.12	254.38	1695.9	3391.8	5087.7	6783.6	8479.5
1	.261	.52	.78	.05	.30	.57	.83	.09	.35	5.7	1.4	7.0	2.7	8.4
2	.258	.52	.77	.03	.28	.55	.80	.06	.32	5.5	0.9	6.4	1.8	7.3
3	.254	.51	.76	.02	.27	.52	.78	.03	.28	5.2	0.5	5.7	1.0	6.2
4	.250	.50	.75	3.00	.25	.50	.75	6.00	.25	5.0	90.0	5.1	80.1	5.1
24 05	28.247	56.50	84.74	112.99	141.23	169.48	197.73	225.98	254.22	1694.8	3389.6	5084.4	6779.2	8474.0
6	.243	.49	.73	.97	.21	.46	.70	.95	.19	4.6	9.2	3.7	8.3	2.9
7	.239	.48	.72	.96	.19	.44	.68	.92	.16	4.4	8.7	3.1	7.4	1.8
8	.236	.47	.71	.94	.18	.41	.65	.89	.12	4.1	8.3	2.4	6.6	70.7
9	.232	.47	.70	.93	.16	.39	.63	.86	.09	3.9	7.8	1.8	5.7	69.6
24 10	28.228	56.46	84.69	112.91	141.14	169.37	197.60	225.83	254.06	1693.7	3387.4	5081.1	6774.8	8468.5
11	.225	.45	.67	.90	.12	.35	.57	.80	4.03	3.5	7.0	80.4	3.9	7.4
12	.221	.44	.66	.88	.10	.33	.55	.77	3.99	3.3	6.5	79.8	3.0	6.3
13	.217	.44	.65	.87	.09	.30	.52	.74	.96	3.0	6.1	9.1	2.2	5.2
14	.214	.43	.64	.85	.07	.28	.50	.71	.92	2.8	5.6	8.5	1.3	4.1
24 15	28.210	56.42	84.63	112.84	141.05	169.26	197.47	225.68	253.89	1692.6	3385.2	5077.8	6770.4	8463.0
16	.206	.41	.62	.83	.03	.24	.44	.65	.86	2.4	4.8	7.1	69.5	1.9
17	.203	.40	.61	.81	.01	.22	.42	.62	.82	2.2	4.3	6.5	8.6	60.8
18	.199	.40	.60	.80	1.00	.19	.39	.59	.79	1.9	3.9	5.8	7.8	59.7
19	.195	.39	.59	.78	0.98	.17	.37	.56	.75	1.7	3.4	5.2	6.9	8.6
24 20	28.192	56.38	84.57	112.77	140.96	169.15	197.34	225.53	253.72	1691.5	3383.0	5074.5	6766.0	8457.5
21	.188	.37	.56	.76	.94	.13	.31	.50	.69	1.3	2.6	3.7	5.1	6.4
22	.184	.37	.55	.74	.92	.11	.29	.47	.65	1.1	2.1	3.1	4.2	5.3
23	.180	.36	.54	.73	.90	.08	.26	.44	.62	0.8	1.7	2.5	3.3	4.1
24	.177	.35	.53	.71	.88	.06	.24	.41	.59	0.6	1.2	1.9	2.4	3.0
24 25	28.173	56.34	84.52	112.70	140.87	169.04	197.21	225.39	253.55	1690.4	3380.8	5071.2	6761.5	8451.9
26	.169	.34	.51	.68	.85	.02	.18	.36	.52	0.2	80.4	70.5	60.6	50.8
27	.166	.33	.50	.66	.83	9.00	.16	.33	.49	90.0	79.9	69.8	59.7	49.7
28	.162	.32	.49	.65	.81	8.97	.13	.30	.46	89.7	9.5	9.2	8.9	8.6
29	.158	.32	.47	.63	.79	.95	.11	.27	.42	9.5	9.0	8.5	8.0	7.5
24 30	28.155	56.31	84.46	112.62	140.77	168.93	197.08	225.24	253.39	1689.3	3378.6	5067.8	6757.1	8446.4
31	.151	.30	.45	.61	.75	.91	.05	.21	.36	9.1	8.1	7.1	6.2	5.3
32	.147	.29	.44	.59	.73	.88	.03	.18	.32	8.8	7.7	6.5	5.3	4.1
33	.143	.29	.43	.58	.72	.86	7.00	.15	.29	8.6	7.2	5.8	4.4	3.0
34	.140	.28	.42	.56	.70	.84	6.98	.12	.26	8.4	6.8	5.2	3.5	1.9
24 35	28.136	56.27	84.41	112.55	140.68	168.82	196.95	225.09	253.22	1688.2	3376.3	5064.5	6752.6	8440.8
36	.132	.26	.40	.53	.66	.79	.92	.06	.19	7.9	5.9	3.8	1.7	39.7
37	.129	.25	.39	.51	.64	.77	.90	.03	.16	7.7	5.4	3.1	0.8	8.6
38	.125	.25	.37	.50	.63	.75	.87	5.00	.13	7.5	5.0	2.5	50.0	7.4
39	.121	.24	.36	.48	.61	.72	.85	4.97	.09	7.2	4.5	1.8	49.1	6.3
24 40	28.117	56.23	84.35	112.47	140.59	168.70	196.82	224.94	253.06	1687.0	3374.1	5061.1	6748.2	8435.2
41	.114	.22	.34	.46	.57	.68	.79	.91	3.03	6.8	3.6	60.4	7.3	4.1
42	.110	.22	.33	.44	.55	.66	.77	.88	2.99	6.6	3.2	59.8	6.4	3.0
43	.106	.21	.32	.43	.53	.63	.74	.85	.96	6.3	2.7	9.1	5.5	1.8
44	.102	.20	.31	.41	.51	.61	.72	.82	.92	6.1	2.3	8.5	4.6	30.7
24 45	28.099	56.20	84.30	112.40	140.50	168.59	196.69	224.79	252.89	1685.9	3371.8	5057.8	6743.7	8429.6
46	.095	.19	.28	.38	.48	.57	.66	.76	.86	5.7	1.4	7.1	2.8	8.5
47	.091	.18	.27	.37	.46	.55	.64	.73	.82	5.5	0.9	6.4	1.9	7.3
48	.087	.17	.26	.35	.44	.52	.61	.70	.79	5.2	0.5	5.8	1.0	6.2
49	.084	.17	.25	.34	.42	.50	.59	.67	.75	5.0	70.0	5.1	40.1	5.1
24 50	28.080	56.16	84.24	112.32	140.40	168.48	196.56	224.64	252.72	1684.8	3369.6	5054.4	6739.2	8424.0
51	.076	.15	.23	.31	.38	.46	.53	.61	.69	4.6	9.1	3.7	8.3	2.8
52	.072	.14	.22	.29	.36	.43	.51	.58	.65	4.3	8.7	3.0	7.4	1.7
53	.069	.14	.21	.28	.34	.41	.48	.55	.62	4.1	8.2	2.4	6.4	20.6
54	.065	.13	.19	.26	.32	.39	.46	.52	.58	3.9	7.8	1.7	5.5	19.4
24 55	28.061	56.12	84.18	112.25	140.31	168.37	196.43	224.49	252.55	1683.7	3367.3	5051.0	6734.6	8418.3
56	.057	.11	.17	.23	.29	.34	.40	.46	.52	3.4	6.9	50.3	3.7	7.2
57	.053	.10	.16	.22	.27	.32	.38	.43	.48	3.2	6.4	49.6	2.8	6.0
58	.050	.10	.15	.20	.25	.30	.35	.40	.45	3.0	6.0	9.0	1.9	4.9
59	.046	.09	.14	.19	.23	.27	.33	.37	.41	2.7	5.5	8.3	1.0	3.8
24 60	28.042	56.08	84.13	112.17	140.21	168.25	196.30	224.34	252.38	1682.5	3365.1	5047.6	6730.1	8412.7

TERRESTRIAL ARCS

Lat.	Latitude 24° to 25°—Meridional arcs						Latitude 24°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 24°30'		Value of 1'	Continuous sums of minutes from latitude 24°00'		Longitude	X	Y
	<i>Meters</i>	"	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
24 00	30.765			1845.89			0 1	1 695.9	0.1
1	5	1	30.77	.89	1	1 845.9	0 2	3 391.8	0.4
2	5	2	61.53	.89	2	3 691.8	0 3	5 087.7	0.9
3	5	3	92.30	.90	3	5 537.7	0 4	6 783.6	1.6
4	5	4	123.07	.90	4	7 383.6			
24 05	30.765	5	153.83	1845.91	5	9 229.5	0 5	8 479.5	2.5
6	5	6	184.60	.91	6	11 075.4	0 6	10 175.4	3.6
7	5	7	215.37	.92	7	12 921.3	0 7	11 871.2	4.9
8	5	8	246.13	.92	8	14 767.2	0 8	13 567.1	6.4
9	5	9	276.90	.92	9	16 613.1	0 9	15 263.0	8.1
24 10	30.765	10	307.67	1845.93	10	18 459.1	0 10	16 958.9	10.0
11	6	1	338.44	.93	1	20 305.0	0 15	25 438.4	22.6
12	6	2	369.20	.94	2	22 150.9	0 20	33 917.8	40.1
13	6	3	399.97	.94	3	23 996.9	0 25	42 397.2	62.7
14	6	4	430.74	.94	4	25 842.8	0 30	50 876.6	90.3
24 15	30.766	15	461.50	1845.95	15	27 688.8	0 35	59 356.0	122.9
16	6	6	492.27	.95	6	29 534.7	0 40	67 835.4	160.5
17	6	7	523.04	.96	7	31 380.7	0 45	76 314.8	203.2
18	6	8	553.80	.96	8	33 226.6	0 50	84 794.1	250.8
19	6	9	584.57	.96	9	35 072.6	0 55	93 273.4	303.5
24 20	30.766	20	615.34	1845.97	20	36 918.6	1 00	101 752.7	361.2
21	6	1	646.10	.97	1	38 764.5	1 05	110 231.9	423.9
22	6	2	676.87	.98	2	40 610.5	1 10	118 711.1	491.6
23	6	3	707.64	.98	3	42 456.5	1 15	127 190.2	564.3
24	6	4	738.40	.98	4	44 302.5	1 20	135 669.3	642.1
24 25	30.766	25	769.17	1845.99	25	46 148.4	1 25	144 148.3	724.8
26	7	6	799.94	5.99	6	47 994.4	1 30	152 627.4	812.6
27	7	7	830.70	6.00	7	49 840.4	1 35	161 106.3	905.4
28	7	8	861.47	.00	8	51 686.4	1 40	169 585.2	1 003.2
29	7	9	892.24	.01	9	53 532.4	1 45	178 064.0	1 106.1
24 30	30.767	30	923.00	1846.01	30	55 378.4	1 50	186 542.8	1 213.9
31	7	1	953.77	.01	1	57 224.4	1 55	195 021.5	1 326.8
32	7	2	984.54	.02	2	59 070.5	2 00	203 500	1 445
33	7	3	1 015.31	.02	3	60 916.5	2 05	305 237	3 250
34	7	4	1 046.07	.03	4	62 762.5	2 10	406 959	5 778
24 35	30.767	35	1 076.84	1846.03	35	64 608.5	5 00	508 660	9 028
36	7	6	1 107.61	.03	6	66 454.6	6 00	610 336	13 001
37	7	7	1 138.37	.04	7	68 300.6	7 00	711 981	17 695
38	7	8	1 169.14	.04	8	70 146.6	8 00	813 590	23 109
39	7	9	1 199.91	.05	9	71 992.7	9 00	915 159	29 245
24 40	30.768	40	1 230.67	1846.05	40	73 838.7	10 00	1 016 681	36 102
41	8	1	1 261.44	.05	1	75 684.8	11 00	1 118 152	43 679
42	8	2	1 292.21	.06	2	77 530.8	12 00	1 219 566	51 977
43	8	3	1 322.97	.06	3	79 376.9	13 00	1 320 919	60 994
44	8	4	1 353.74	.07	4	81 223.0	14 00	1 422 205	70 781
24 45	30.768	45	1 384.51	1846.07	45	83 069.0	15 00	1 523 420	81 186
46	8	6	1 415.27	.08	6	84 915.1	16 00	1 624 558	92 360
47	8	7	1 446.04	.08	7	86 761.2	17 00	1 725 614	104 251
48	8	8	1 476.81	.08	8	88 607.3	18 00	1 826 583	116 859
49	8	9	1 507.57	.09	9	90 453.3	19 00	1 927 460	130 184
24 50	30.768	50	1 538.34	1846.09	50	92 299.4	20 00	2 028 240	144 225
51	8	1	1 569.11	.10	1	94 145.5	21 00	2 128 918	158 981
52	8	2	1 599.87	.10	2	95 991.6	22 00	2 229 488	174 451
53	8	3	1 630.64	.10	3	97 837.7	23 00	2 329 946	190 634
54	8	4	1 661.41	.11	4	99 683.8	24 00	2 430 287	207 530
24 55	30.769	55	1 692.17	1846.11	55	101 529.9	25 00	2 530 505	225 138
56	9	6	1 722.94	.12	6	103 376.1	26 00	2 630 596	243 458
57	9	7	1 753.71	.12	7	105 222.2	27 00	2 730 554	262 487
58	9	8	1 784.48	.13	8	107 068.3	28 00	2 830 374	282 225
59	9	9	1 815.24	.13	9	108 914.4	29 00	2 930 052	302 671
24 60	30.769	60	1 846.01	1846.13	60	110 760.6	30 00	3 029 582	323 825

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 25° to 26°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
25 00	28.042	56.08	84.13	112.17	140.21	168.25	196.30	224.34	252.38	1682.5	3365.1	5047.6	6730.1	8412.7
1	.038	.07	.12	.16	.19	.23	.27	.31	.35	2.3	4.6	6.9	29.2	1.5
2	.035	.07	.10	.14	.17	.21	.25	.28	.31	2.1	4.2	6.2	8.3	10.4
3	.031	.06	.09	.13	.15	.18	.22	.25	.28	1.8	3.7	5.6	7.4	09.2
4	.027	.05	.08	.11	.13	.16	.19	.22	.24	1.6	3.3	4.9	6.5	8.1
25 05	28.023	56.04	84.07	112.10	140.12	168.14	196.17	224.18	252.21	1681.4	3362.8	5044.2	6725.6	8407.0
6	.019	.04	.06	.08	.10	.12	.14	.15	.18	1.2	2.3	3.5	4.7	5.8
7	.016	.03	.05	.07	.08	.10	.11	.12	.14	1.0	1.9	2.8	3.8	4.7
8	.012	.02	.03	.05	.06	.07	.08	.09	.11	0.7	1.4	2.2	2.8	3.5
9	.008	.02	.02	.04	.04	.05	.06	.06	.07	0.5	1.0	1.5	1.9	2.4
25 10	28.004	56.01	84.01	112.02	140.02	168.03	196.03	224.03	252.04	1680.3	3360.5	5040.8	6721.0	8401.3
11	8.000	6.00	4.00	2.00	40.00	8.00	6.00	4.00	2.01	80.0	60.0	40.1	20.1	400.1
12	7.997	5.99	3.99	1.99	39.98	7.98	5.98	3.97	1.97	79.8	59.6	39.4	19.2	399.0
13	.993	.99	.98	.97	.96	.96	.95	.94	.94	9.6	9.1	8.7	8.2	7.8
14	.989	.98	.97	.96	.94	.93	.92	.91	.90	9.3	8.7	8.0	7.3	6.7
25 15	27.985	55.97	83.95	111.94	139.93	167.91	195.90	223.88	251.87	1679.1	3358.2	5037.3	6716.4	8395.5
16	.981	.96	.94	.92	.91	.89	.87	.85	.83	8.9	7.7	6.6	5.5	4.4
17	.977	.95	.93	.91	.89	.86	.84	.82	.80	8.6	7.3	5.9	4.6	3.2
18	.974	.95	.92	.89	.87	.84	.81	.79	.76	8.4	6.8	5.3	3.6	2.1
19	.970	.94	.91	.88	.85	.82	.79	.76	.73	8.2	6.4	4.6	2.7	91.0
25 20	27.966	55.93	83.90	111.86	139.83	167.80	195.76	223.73	251.69	1678.0	3355.9	5033.9	6711.8	8389.8
21	.962	.92	.89	.85	.81	.78	.73	.70	.66	7.8	5.4	3.2	0.9	8.7
22	.958	.92	.88	.83	.79	.75	.71	.67	.62	7.5	5.0	2.5	10.0	7.5
23	.954	.91	.86	.82	.77	.73	.68	.64	.59	7.3	4.5	1.8	09.0	6.3
24	.951	.90	.85	.80	.75	.70	.65	.61	.55	7.0	4.1	1.1	8.1	5.2
25 25	27.947	55.90	83.84	111.79	139.74	167.68	195.62	223.57	251.52	1676.8	3353.6	5030.4	6707.2	8384.0
26	.943	.89	.83	.77	.72	.66	.60	.54	.48	6.6	3.1	29.7	6.3	2.9
27	.939	.88	.82	.76	.70	.63	.57	.51	.45	6.3	2.7	9.0	5.4	1.7
28	.935	.87	.81	.74	.68	.61	.54	.48	.41	6.1	2.2	8.4	4.4	80.6
29	.931	.87	.79	.73	.66	.59	.52	.45	.38	5.9	1.8	7.7	3.5	79.4
25 30	27.928	55.86	83.78	111.71	139.64	167.57	195.49	223.42	251.34	1675.7	3351.3	5027.0	6702.6	8378.3
31	.924	.85	.77	.70	.62	.55	.46	.39	.31	5.5	0.8	6.3	1.7	7.1
32	.920	.84	.76	.68	.60	.52	.44	.36	.27	5.2	50.4	5.6	700.8	6.0
33	.916	.84	.75	.67	.58	.50	.41	.33	.24	5.0	49.9	4.9	699.8	4.8
34	.912	.83	.74	.65	.56	.47	.38	.30	.20	4.7	9.5	4.2	8.9	3.7
25 35	27.908	55.82	83.72	111.64	139.55	167.45	195.36	223.26	251.17	1674.5	3349.0	5023.5	6698.0	8372.5
36	.904	.81	.71	.62	.53	.43	.33	.23	.14	4.3	8.5	2.8	7.1	1.3
37	.901	.80	.70	.61	.51	.40	.30	.20	.10	4.0	8.1	2.1	6.2	70.2
38	.897	.80	.69	.59	.49	.38	.27	.17	.07	3.8	7.6	1.4	5.2	69.0
39	.893	.79	.68	.58	.47	.36	.25	.14	.03	3.6	7.2	0.7	4.3	7.9
25 40	27.889	55.78	83.67	111.56	139.45	167.33	195.22	223.11	251.00	1673.3	3346.7	5020.0	6693.4	8366.7
41	.885	.77	.66	.54	.43	.31	.19	.08	0.97	3.1	6.2	19.3	2.5	5.5
42	.881	.76	.64	.53	.41	.29	.17	.05	.93	2.9	5.7	8.6	1.5	4.4
43	.877	.76	.63	.51	.39	.26	.14	3.02	.90	2.6	5.3	7.9	90.6	3.2
44	.873	.75	.62	.50	.37	.24	.11	2.99	.86	2.4	4.8	7.2	89.6	2.0
25 45	27.869	55.74	83.61	111.48	139.35	167.22	195.09	222.95	250.82	1672.2	3344.3	5016.5	6688.7	8360.8
46	.866	.73	.60	.46	.33	.19	.06	.92	.79	1.9	3.8	5.8	7.8	59.7
47	.862	.72	.59	.45	.31	.17	.03	.89	.75	1.7	3.4	5.1	6.8	8.5
48	.858	.72	.57	.43	.29	.15	5.00	.86	.72	1.5	2.9	4.4	5.9	7.4
49	.854	.71	.56	.42	.27	.12	4.98	.83	.68	1.2	2.5	3.7	4.9	6.2
25 50	27.850	55.70	83.55	111.40	139.25	167.10	194.95	222.80	250.65	1671.0	3342.0	5013.0	6684.0	8355.0
51	.846	.69	.54	.38	.23	.08	.92	.77	.62	0.8	1.5	2.3	3.1	3.8
52	.842	.68	.53	.37	.21	.05	.90	.74	.58	0.5	1.1	1.6	2.1	2.7
53	.838	.68	.51	.35	.19	.03	.87	.71	.55	0.3	0.6	0.9	1.2	1.5
54	.834	.67	.50	.34	.17	7.01	.84	.68	.51	70.1	40.2	10.2	80.2	50.3
25 55	27.831	55.66	83.49	111.32	139.16	166.98	194.82	222.64	250.48	1669.8	3339.7	5009.5	6679.3	8349.2
56	.827	.65	.48	.30	.14	.96	.79	.61	.44	9.6	9.2	8.8	8.4	8.0
57	.823	.64	.47	.29	.12	.94	.76	.58	.41	9.4	8.7	8.1	7.4	6.8
58	.819	.64	.46	.27	.10	.91	.73	.55	.37	9.1	8.3	7.4	6.5	5.6
59	.815	.63	.44	.26	.08	.89	.71	.52	.34	8.9	7.8	6.7	5.5	4.5
25 60	27.811	55.62	83.43	111.24	139.06	166.87	194.68	222.49	250.30	1668.7	3337.3	5006.0	6674.6	8343.3

Lat.	Latitude 25° to 26°—Meridional arcs						Latitude 25°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 25°30'		Value of 1'	Continuous sums of minutes from latitude 25°00'		Longitude	X	Y
		Meters	"		Meters	'			
25 00	30.769			1846.13			0 1	1 682.5	0.1
1	9	1	30.77	.14	1	1 846.1	2	3 365.1	0.4
2	9	2	61.54	.14	2	3 692.3	3	5 047.6	0.9
3	9	3	92.31	.15	3	5 538.4	4	6 730.1	1.7
4	9	4	123.08	.15	4	7 384.6			
25 05	30.769	5	153.86	1846.15	5	9 230.7	0 5	8 412.7	2.6
6	9	6	184.63	.16	6	11 076.9	6	10 095.2	3.7
7	9	7	215.40	.16	7	12 923.0	7	11 777.7	5.1
8	69	8	246.17	.17	8	14 769.2	8	13 460.3	6.6
9	70	9	276.94	.17	9	16 615.4	9	15 142.8	8.4
25 10	30.770	10	307.71	1846.18	10	18 461.5	0 10	16 825.3	10.3
11	0	1	338.48	.18	1	20 307.7	15	25 238.0	23.3
12	0	2	369.25	.18	2	22 153.9	20	33 650.6	41.4
13	0	3	400.02	.19	3	24 000.1	25	42 063.2	64.6
14	0	4	430.79	.19	4	25 846.3	30	50 475.8	93.1
25 15	30.770	15	461.57	1846.20	15	27 692.5	0 35	58 883.4	126.7
16	0	6	492.34	.20	6	29 538.7	40	67 301.0	165.5
17	0	7	523.11	.21	7	31 384.9	45	75 713.5	209.4
18	0	8	553.88	.21	8	33 231.1	50	84 126.0	258.5
19	0	9	584.65	.21	9	35 077.3	55	92 538.5	312.8
25 20	30.770	20	615.42	1846.22	20	36 923.5	1 00	100 950.9	372.3
21	0	1	646.19	.22	1	38 769.7	05	109 363.4	436.9
22	0	2	676.96	.23	2	40 615.9	10	117 775.7	506.8
23	1	3	707.73	.23	3	42 462.2	15	126 188.0	581.7
24	1	4	738.50	.23	4	44 308.4	20	134 600.3	661.9
25 25	30.771	25	769.28	1846.24	25	46 154.6	1 25	143 012.5	747.2
26	1	6	800.05	.24	6	48 000.9	30	151 424.7	837.7
27	1	7	830.82	.25	7	49 847.1	35	159 836.8	933.4
28	1	8	861.59	.25	8	51 693.4	40	168 248.9	1 034.2
29	1	9	892.36	.26	9	53 539.6	45	176 660.9	1 140.2
25 30	30.771	30	923.13	1846.26	30	55 385.9	1 50	185 072.8	1 251.4
31	1	1	953.90	.26	1	57 232.1	55	193 484.6	1 367.7
32	1	2	984.67	.27	2	59 078.4	2 00	201 896	1 489
33	1	3	1 015.44	.27	3	60 924.7	3 00	302 831	3 351
34	1	4	1 046.21	.28	4	62 771.0	4 00	403 749	5 957
25 35	30.771	35	1 076.99	1846.28	35	64 617.2	5 00	504 645	9 307
36	1	6	1 107.76	.29	6	66 463.5	6 00	605 514	13 401
37	1	7	1 138.53	.29	7	68 309.8	7 00	706 349	18 239
38	2	8	1 169.30	.29	8	70 156.1	8 00	807 146	23 821
39	2	9	1 200.07	.30	9	72 002.4	9 00	907 899	30 146
25 40	30.772	40	1 230.84	1846.30	40	73 848.7	10 00	1 008 603	37 215
41	2	1	1 261.61	.31	1	75 695.0	11 00	1 109 252	45 026
42	2	2	1 292.38	.31	2	77 541.3	12 00	1 209 841	53 578
43	2	3	1 323.15	.32	3	79 387.6	13 00	1 310 364	62 873
44	2	4	1 353.92	.32	4	81 233.9	14 00	1 410 815	72 909
25 45	30.772	45	1 384.70	1846.32	45	83 080.3	15 00	1 511 190	83 685
46	2	6	1 415.47	.33	6	84 926.6	16 00	1 611 483	95 202
47	2	7	1 446.24	.33	7	86 772.9	17 00	1 711 688	107 458
48	2	8	1 477.01	.34	8	88 619.3	18 00	1 811 800	120 453
49	2	9	1 507.78	.34	9	90 465.6	19 00	1 911 813	134 186
25 50	30.772	50	1 538.55	1846.35	50	92 311.9	20 00	2 011 722	148 656
51	2	1	1 569.32	.35	1	94 158.3	21 00	2 111 522	163 862
52	3	2	1 600.09	.35	2	96 004.6	22 00	2 211 207	179 805
53	3	3	1 630.86	.36	3	97 851.0	23 00	2 310 771	196 482
54	3	4	1 661.63	.36	4	99 697.4	24 00	2 410 210	213 894
25 55	30.773	55	1 692.41	1846.37	55	101 543.7	25 00	2 509 518	232 038
56	3	6	1 723.18	.37	6	103 390.1	26 00	2 608 689	250 914
57	3	7	1 753.95	.38	7	105 236.5	27 00	2 707 718	270 521
58	3	8	1 784.72	.38	8	107 082.8	28 00	2 806 600	290 859
59	3	9	1 815.49	.38	9	108 929.2	29 00	2 905 329	311 925
25 60	30.773	60	1 846.26	1846.39	60	110 775.6	30 00	3 003 900	333 718

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 26° to 27°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
26 00	27.811	55.62	83.43	111.24	139.06	166.87	194.68	222.49	250.30	1668.7	3337.3	5006.0	6674.6	8343.3
1	.807	.61	.42	.23	.04	.85	.65	.46	.26	8.5	6.8	5.3	3.7	2.1
2	.803	.60	.41	.21	.02	.82	.62	.43	.23	8.2	6.3	4.6	2.7	40.9
3	.799	.60	.40	.20	9.00	.80	.60	.39	.19	8.0	5.9	3.8	1.8	39.7
4	.795	.59	.39	.18	8.98	.77	.57	.36	.16	7.7	5.4	3.1	70.8	8.6
26 05	27.791	55.58	83.37	111.17	138.96	166.75	194.54	222.33	250.12	1667.5	3334.9	5002.4	6669.9	8337.4
6	.787	.57	.36	.15	.94	.73	.51	.30	.08	7.3	4.4	1.7	9.0	6.2
7	.783	.56	.35	.14	.92	.70	.48	.27	.05	7.0	4.0	1.0	8.0	5.0
8	.779	.56	.34	.12	.90	.68	.46	.23	50.01	6.8	3.5	5000.3	7.1	3.8
9	.776	.55	.33	.11	.88	.65	.43	.20	49.98	6.5	3.1	4999.6	6.1	2.7
26 10	27.772	55.54	83.31	111.09	138.86	166.63	194.40	222.17	249.94	1666.3	3332.6	4998.9	6665.2	8331.5
11	.768	.53	.30	.07	.84	.61	.37	.14	.91	6.1	2.1	8.2	4.2	30.3
12	.764	.52	.29	.06	.82	.58	.34	.11	.87	5.8	1.6	7.5	3.3	29.1
13	.760	.52	.28	.04	.80	.56	.32	.08	.84	5.6	1.2	6.7	2.3	7.9
14	.756	.51	.27	.03	.78	.53	.29	.05	.80	5.3	0.7	6.0	1.4	6.7
26 15	27.752	55.50	83.25	111.01	138.76	166.51	194.26	222.01	249.77	1665.1	3330.2	4995.3	6660.4	8325.5
16	.748	.49	.24	0.99	.74	.49	.23	1.98	.73	4.9	29.7	4.6	59.5	4.4
17	.744	.48	.23	.98	.72	.46	.20	.95	.70	4.6	9.2	3.9	8.5	3.2
18	.740	.48	.22	.96	.70	.44	.18	.92	.66	4.4	8.8	3.2	7.6	2.0
19	.736	.47	.21	.95	.68	.41	.15	.89	.63	4.1	8.3	2.5	6.6	20.8
26 20	27.732	55.46	83.20	110.93	138.66	166.39	194.12	221.86	249.59	1663.9	3327.8	4991.8	6655.7	8319.6
21	.728	.45	.18	.91	.64	.37	.09	.83	.55	3.7	7.3	1.1	4.7	8.4
22	.724	.44	.17	.90	.62	.34	.07	.80	.52	3.4	6.9	90.4	3.8	7.2
23	.720	.44	.16	.88	.60	.32	.04	.76	.48	3.2	6.4	89.6	2.8	6.0
24	.716	.43	.15	.87	.58	.29	4.01	.73	.45	2.9	6.0	8.9	1.9	4.8
26 25	27.712	55.42	83.14	110.85	138.56	166.27	193.98	221.70	249.41	1662.7	3325.5	4988.2	6650.9	8313.6
26	.708	.41	.12	.83	.54	.25	.96	.67	.37	2.5	5.0	7.5	49.9	2.4
27	.704	.40	.11	.82	.52	.22	.93	.64	.34	2.2	4.5	6.8	9.0	1.2
28	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.1	6.0	8.0	10.0
29	.696	.39	.09	.79	.48	.17	.88	.57	.27	1.7	3.6	5.3	7.1	08.9
26 30	27.692	55.38	83.08	110.77	138.46	166.15	193.85	221.54	249.23	1661.5	3323.1	4984.6	6646.1	8307.7
31	.688	.37	.07	.75	.44	.13	.82	.51	.19	1.3	2.6	3.9	5.1	6.5
32	.684	.36	.05	.74	.42	.10	.79	.48	.16	1.0	2.1	3.2	4.2	5.3
33	.680	.36	.04	.72	.40	.08	.76	.44	.12	0.8	1.7	2.4	3.2	4.0
34	.676	.35	.03	.71	.38	.05	.73	.41	.09	0.5	1.2	1.7	2.3	2.8
26 35	27.672	55.34	83.02	110.69	138.36	166.03	193.71	221.38	249.05	1660.3	3320.7	4981.0	6641.3	8301.6
36	.668	.33	3.00	.67	.34	6.01	.68	.35	9.01	60.1	20.2	80.3	40.3	300.4
37	.664	.32	2.99	.66	.32	5.98	.65	.32	8.98	59.8	19.7	79.6	39.4	299.2
38	.660	.32	.98	.64	.30	.96	.62	.28	.94	9.6	9.3	8.8	8.4	8.0
39	.656	.31	.97	.63	.28	.93	.59	.25	.91	9.3	8.8	8.1	7.5	6.8
26 40	27.652	55.30	82.96	110.61	138.26	165.91	193.56	221.22	248.87	1659.1	3318.3	4977.4	6636.5	8295.6
41	.648	.29	.94	.59	.24	.89	.53	.19	.83	8.9	7.8	6.7	5.5	4.4
42	.644	.28	.93	.58	.22	.86	.50	.16	.80	8.6	7.3	6.0	4.6	3.2
43	.640	.28	.92	.56	.20	.84	.48	.12	.76	8.4	6.8	5.2	3.6	2.0
44	.636	.27	.91	.55	.18	.81	.45	.09	.73	8.1	6.3	4.5	2.7	90.8
26 45	27.632	55.26	82.90	110.53	138.16	165.79	193.42	221.06	248.69	1657.9	3315.8	4973.8	6631.7	8289.6
46	.628	.25	.88	.51	.14	.77	.39	.03	.65	7.7	5.3	3.1	30.7	8.4
47	.624	.24	.87	.50	.12	.74	.36	1.00	.62	7.4	4.8	2.3	29.7	7.2
48	.620	.24	.86	.48	.10	.72	.34	0.96	.58	7.2	4.4	1.6	8.8	6.0
49	.616	.23	.85	.47	.08	.69	.31	.93	.55	6.9	3.9	0.8	7.8	4.8
26 50	27.612	55.22	82.84	110.45	138.06	165.67	193.28	220.90	248.51	1656.7	3313.4	4970.1	6626.8	8283.6
51	.608	.21	.82	.43	.04	.65	.25	.87	.47	6.5	2.9	69.4	5.8	2.3
52	.604	.20	.81	.42	.02	.62	.22	.83	.44	6.2	2.4	8.7	4.9	81.1
53	.600	.20	.80	.40	8.00	.60	.20	.80	.40	6.0	2.0	7.9	3.9	79.9
54	.596	.19	.79	.39	7.98	.57	.17	.77	.36	5.7	1.5	7.2	3.0	8.7
26 55	27.592	55.18	82.78	110.37	137.96	165.55	193.14	220.73	248.32	1655.5	3311.0	4966.5	6622.0	8277.5
56	.588	.17	.76	.35	.94	.53	.11	.70	.29	5.3	0.5	5.8	1.0	6.3
57	.583	.16	.75	.34	.92	.50	.08	.67	.25	5.0	10.0	5.0	20.0	5.0
58	.579	.16	.74	.32	.90	.48	.06	.64	.21	4.8	09.6	4.3	19.1	3.8
59	.575	.15	.73	.31	.88	.45	.03	.60	.18	4.5	9.1	3.5	8.1	2.6
26 60	27.571	55.14	82.71	110.29	137.86	165.43	193.00	220.57	248.14	1654.3	3308.6	4962.8	6617.1	8271.4

Lat.	Latitude 26° to 27°—Meridional arcs					Latitude 26°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 26°30'		Value of 1'	Continuous sums of minutes from latitude 26°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
26 00	30.773			1846.39			0 1	1 668.7	0.1
1	3	1	30.78	.39	1	1 846.4	0 2	3 337.3	0.4
2	3	2	61.55	.40	2	3 692.8	0 3	5 006.0	1.0
3	3	3	92.33	.40	3	5 539.2	0 4	6 674.6	1.7
4	3	4	123.10	.41	4	7 385.6			
26 05	30.773	5	153.88	1846.41	5	9 232.0	0 5	8 343.3	2.7
6	4	6	184.65	.41	6	11 078.4	0 6	10 011.9	3.8
7	4	7	215.43	.42	7	12 924.8	0 7	11 680.6	5.2
8	4	8	246.20	.42	8	14 771.2	0 8	13 349.2	6.8
9	4	9	276.98	.43	9	16 617.7	0 9	15 017.9	8.6
26 10	30.774	10	307.75	1846.43	10	18 464.1	0 10	16 686.6	10.6
11	4	1	338.53	.44	1	20 310.5	0 15	25 029.8	23.9
12	4	2	369.30	.44	2	22 157.0	0 20	33 373.1	42.6
13	4	3	400.08	.44	3	24 003.4	0 25	41 716.4	66.5
14	4	4	430.85	.45	4	25 849.9	0 30	50 059.6	95.8
26 15	30.774	15	461.63	1846.45	15	27 696.3	0 35	58 402.9	130.3
16	4	6	492.40	.46	6	29 542.8	0 40	66 746.1	170.2
17	4	7	523.18	.46	7	31 389.2	0 45	75 089.2	215.4
18	4	8	553.96	.47	8	33 235.7	0 50	83 432.4	266.0
19	5	9	584.73	.47	9	35 082.2	0 55	91 775.5	321.8
26 20	30.775	20	615.51	1846.47	20	36 928.6	1 00	100 118.5	383.0
21	5	1	646.28	.48	1	38 775.1	1 05	108 461.5	449.5
22	5	2	677.06	.48	2	40 621.6	1 10	116 804.6	521.3
23	5	3	707.83	.49	3	42 468.1	1 15	125 147.5	598.4
24	5	4	738.61	.49	4	44 314.6	1 20	133 490.4	680.9
26 25	30.775	25	769.38	1846.50	25	46 161.1	1 25	141 833.2	768.7
26	5	6	800.16	.50	6	48 007.6	1 30	150 176.0	861.7
27	5	7	830.93	.51	7	49 854.1	1 35	158 518.7	960.2
28	5	8	861.71	.51	8	51 700.6	1 40	166 861.3	1 063.9
29	5	9	892.48	.51	9	53 547.1	1 45	175 203.9	1 172.9
26 30	30.775	30	923.26	1846.52	30	55 393.6	1 50	183 546.4	1 287.3
31	5	1	954.03	.52	1	57 240.1	1 55	191 888.9	1 407.0
32	5	2	984.81	.53	2	59 086.7	2 00	200 231	1 532
33	6	3	1 015.59	.53	3	60 933.2	2 05	300 332	3 447
34	6	4	1 046.36	.54	4	62 779.7	2 10	400 416	6 128
26 35	30.776	35	1 077.14	1846.54	35	64 626.2	5 00	500 476	9 574
36	6	6	1 107.91	.54	6	66 472.8	6 00	600 506	13 786
37	6	7	1 138.69	.55	7	68 319.3	7 00	700 501	18 763
38	6	8	1 169.46	.55	8	70 165.9	8 00	800 456	24 505
39	6	9	1 200.24	.56	9	72 012.4	9 00	900 364	31 011
26 40	30.776	40	1 231.01	1846.56	40	73 859.0	10 00	1 000 218	38 282
41	6	1	1 261.79	.57	1	75 705.6	11 00	1 100 015	46 316
42	6	2	1 292.56	.57	2	77 552.1	12 00	1 199 747	55 114
43	6	3	1 323.34	.58	3	79 398.7	13 00	1 299 409	64 675
44	6	4	1 354.11	.58	4	81 245.3	14 00	1 398 994	74 998
26 45	30.776	45	1 384.89	1846.58	45	83 091.9	15 00	1 498 498	86 082
46	6	6	1 415.66	.59	6	84 938.4	16 00	1 597 914	97 928
47	7	7	1 446.44	.59	7	86 785.0	17 00	1 697 237	110 534
48	7	8	1 477.21	.60	8	88 631.6	18 00	1 796 460	123 899
49	7	9	1 507.99	.60	9	90 478.2	19 00	1 895 578	138 023
26 50	30.777	50	1 538.77	1846.61	50	92 324.8	20 00	1 994 585	152 905
51	7	1	1 569.54	.61	1	94 171.4	21 00	2 093 475	168 544
52	7	2	1 600.32	.61	2	96 018.1	22 00	2 192 243	184 939
53	7	3	1 631.09	.62	3	97 864.7	23 00	2 290 882	202 089
54	7	4	1 661.87	.62	4	99 711.3	24 00	2 389 387	219 993
26 55	30.777	55	1 692.64	1846.63	55	101 557.9	25 00	2 487 753	238 650
56	7	6	1 723.42	.63	6	103 404.6	26 00	2 585 973	258 061
57	7	7	1 754.19	.64	7	105 251.2	27 00	2 684 042	278 222
58	7	8	1 784.97	.64	8	107 097.8	28 00	2 781 953	299 132
59	7	9	1 815.74	.65	9	108 944.5	29 00	2 879 702	320 788
26 60	30.777	60	1 846.52	1846.65	60	110 791.1	30 00	2 977 281	343 197

Latitude 27° to 28°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
27 00	27.571	55.14	82.71	110.29	137.86	165.43	193.00	220.57	248.14	1654.3	3308.6	4962.8	6617.1	8271.4
1	.567	.13	.70	.27	.84	.41	2.97	.54	.10	4.1	8.1	2.1	6.1	70.2
2	.563	.12	.69	.26	.82	.38	.94	.50	.07	3.8	7.6	1.4	5.1	68.9
3	.559	.12	.68	.24	.80	.35	.91	.47	8.03	2.5	7.1	60.6	4.2	7.7
4	.555	.11	.66	.22	.78	.33	.88	.44	7.99	3.3	6.6	59.9	3.2	6.5
27 05	27.551	55.10	82.65	110.21	137.76	165.31	192.86	220.40	247.96	1653.1	3306.1	4959.2	6612.2	8265.3
6	.547	.09	.64	.19	.73	.28	.83	.37	.92	2.8	5.6	8.5	1.2	4.1
7	.543	.08	.63	.17	.71	.26	.80	.34	.88	2.6	5.1	7.7	10.2	2.8
8	.539	.08	.62	.15	.69	.23	.77	.31	.84	2.3	4.7	6.9	09.3	1.6
9	.535	.07	.60	.14	.67	.21	.74	.27	.81	2.1	4.2	6.2	8.3	60.4
27 10	27.531	55.06	82.59	110.12	137.65	165.18	192.71	220.24	247.77	1651.8	3303.7	4955.5	6607.3	8259.2
11	.526	.05	.58	.10	.63	.16	.68	.21	.73	1.6	3.2	4.8	6.3	7.9
12	.522	.04	.57	.09	.61	.13	.65	.18	.70	1.3	2.7	4.0	5.3	6.7
13	.518	.04	.55	.08	.59	.11	.63	.14	.66	1.1	2.2	3.3	4.4	5.5
14	.514	.03	.54	.06	.57	.08	.60	.11	.63	0.8	1.7	2.5	3.4	4.2
27 15	27.510	55.02	82.53	110.04	137.55	165.06	192.57	220.08	247.59	1650.6	3301.2	4951.8	6602.4	8253.0
16	.506	.01	.52	.03	.53	.04	.54	.05	.55	0.4	0.7	1.1	1.4	1.8
17	.502	.00	.51	10.01	.51	5.01	.51	20.02	.52	50.1	300.2	50.3	600.4	50.6
18	.498	5.00	.49	09.99	.49	4.99	.49	19.98	.48	49.9	299.7	49.6	599.5	49.3
19	.494	4.99	.48	.98	.47	.96	.46	.95	.45	9.6	9.2	8.8	8.5	8.1
27 20	27.490	54.98	82.47	109.96	137.45	164.94	192.43	219.92	247.41	1649.4	3298.7	4948.1	6597.5	8246.9
21	.485	.97	.46	.94	.43	.91	.40	.89	.37	9.1	8.2	7.4	6.5	5.6
22	.481	.96	.44	.93	.41	.89	.37	.85	.33	8.9	7.7	6.6	5.5	4.4
23	.477	.96	.43	.91	.39	.86	.34	.82	.30	8.6	7.3	5.9	4.5	3.2
24	.473	.95	.42	.89	.37	.84	.31	.79	.26	8.4	6.8	5.1	3.5	1.9
27 25	27.469	54.94	82.41	109.88	137.34	164.81	192.29	219.75	247.22	1648.1	3296.3	4944.4	6592.5	8240.7
26	.465	.93	.39	.86	.32	.79	.26	.72	.18	7.9	5.8	3.7	1.5	39.4
27	.461	.92	.38	.84	.30	.76	.23	.69	.14	7.6	5.3	2.9	90.5	8.2
28	.457	.92	.37	.82	.28	.74	.20	.66	.11	7.4	4.8	2.2	89.6	7.0
29	.452	.91	.36	.81	.26	.71	.17	.62	.07	7.1	4.3	1.4	8.6	5.7
27 30	27.448	54.90	82.34	109.79	137.24	164.69	192.14	219.59	247.03	1646.9	3293.8	4940.7	6587.6	8234.5
31	.444	.89	.33	.77	.22	.67	.11	.56	6.99	6.7	3.3	40.0	6.6	3.3
32	.440	.88	.32	.76	.20	.64	.08	.52	.96	6.4	2.8	39.2	5.6	2.0
33	.436	.87	.31	.74	.18	.62	.05	.49	.92	6.2	2.3	8.5	4.6	30.8
34	.432	.86	.29	.73	.16	.59	.02	.46	.88	5.9	1.8	7.7	3.6	29.5
27 35	27.428	54.86	82.28	109.71	137.13	164.57	192.00	219.42	246.84	1645.7	3291.3	4937.0	6582.6	8228.3
36	.423	.85	.27	.69	.11	.54	1.97	.39	.81	5.4	0.8	6.2	1.6	7.0
37	.419	.84	.26	.68	.09	.52	.94	.36	.77	5.2	90.3	5.5	80.6	5.8
38	.415	.83	.24	.66	.07	.49	.91	.33	.73	4.9	89.8	4.7	79.6	4.5
39	.411	.82	.23	.65	.05	.47	.88	.29	.70	4.7	9.3	4.0	8.6	3.3
27 40	27.407	54.81	82.22	109.63	137.03	164.44	191.85	219.26	246.66	1644.4	3288.8	4933.2	6577.6	8222.1
41	.403	.80	.21	.61	7.01	.42	.82	.23	.62	4.2	8.3	2.5	6.6	20.8
42	.399	.79	.20	.60	6.99	.39	.79	.19	.59	3.9	7.8	1.7	5.6	19.6
43	.394	.79	.18	.58	.97	.37	.76	.16	.55	3.7	7.3	1.0	4.6	8.3
44	.390	.78	.17	.56	.95	.34	.73	.12	.51	3.4	6.8	30.2	3.6	7.1
27 45	27.386	54.77	82.16	109.55	136.93	164.32	191.71	219.09	246.48	1643.2	3286.3	4929.5	6572.6	8215.8
46	.382	.76	.15	.53	.91	.29	.68	.06	.44	2.9	5.8	8.7	1.6	4.6
47	.378	.75	.13	.51	.89	.27	.65	9.02	.40	2.7	5.3	8.0	70.6	3.3
48	.374	.75	.12	.49	.87	.24	.62	8.99	.36	2.4	4.8	7.2	69.6	2.1
49	.369	.74	.11	.48	.85	.22	.59	.95	.33	2.2	4.3	6.5	8.6	10.8
27 50	27.365	54.73	82.10	109.46	136.83	164.19	191.56	218.92	246.29	1641.9	3283.8	4925.7	6567.6	8209.6
51	.361	.72	.08	.44	.81	.17	.53	.89	.25	1.7	3.3	5.0	6.6	8.3
52	.357	.71	.07	.43	.79	.14	.50	.85	.21	1.4	2.8	4.2	5.6	7.0
53	.353	.71	.06	.41	.77	.12	.47	.82	.18	1.2	2.3	3.5	4.6	5.8
54	.348	.70	.05	.39	.75	.09	.44	.79	.14	0.9	1.8	2.7	3.6	4.5
27 55	27.344	54.69	82.03	109.38	136.72	164.07	191.41	218.75	246.10	1640.7	3281.3	4922.0	6562.6	8203.3
56	.340	.68	.02	.36	.70	.04	.38	.72	.06	0.4	0.8	1.2	1.6	2.0
57	.336	.67	.01	.34	.68	4.02	.35	.69	6.02	40.2	80.3	20.5	60.6	200.7
58	.332	.67	2.00	.32	.66	3.99	.32	.66	5.99	39.9	79.8	19.7	59.6	199.5
59	.327	.66	1.98	.31	.64	.96	.29	.62	.95	9.6	9.3	8.9	8.6	8.2
27 60	27.323	54.65	81.97	109.29	136.62	163.94	191.26	218.59	245.91	1639.4	3278.8	4918.2	6557.6	8197.0

Lat.	Latitude 27° to 28°—Meridional arcs						Latitude 27°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 27°30'		Value of 1'	Continuous sums of minutes from latitude 27°00'		Longitude	X	Y
		Meters	"		Meters	'			
27 00	30.777			1846.65			0 1	1 654.3	0.1
1	8	1	30.78	.65	1	1 846.7	2	3 308.5	0.4
2	8	2	61.56	.66	2	3 693.3	3	4 962.8	1.0
3	8	3	92.34	.66	3	5 540.0	4	6 617.1	1.7
4	8	4	123.12	.67	4	7 386.6			
27 05	30.778	5	153.90	1846.67	5	9 233.3	0 5	8 271.4	2.7
6	8	6	184.68	.68	6	11 080.0	6	9 925.7	3.9
7	8	7	215.46	.68	7	12 926.7	7	11 579.9	5.4
8	8	8	246.24	.69	8	14 773.3	8	13 234.2	7.0
9	8	9	277.02	.69	9	16 620.0	9	14 888.5	8.8
27 10	30.778	10	307.80	1846.69	10	18 466.7	0 10	16 542.8	10.9
11	8	1	338.58	.70	1	20 313.4	15	24 814.1	24.6
12	8	2	369.36	.70	2	22 160.1	20	33 085.5	43.7
13	8	3	400.14	.71	3	24 006.8	25	41 356.9	68.3
14	9	4	430.92	.71	4	25 853.5	30	49 628.2	98.3
27 15	30.779	15	461.70	1846.72	15	27 700.2	0 35	57 899.5	133.8
16	9	6	492.48	.72	6	29 547.0	40	66 170.8	174.8
17	9	7	523.26	.73	7	31 393.7	45	74 442.1	221.2
18	9	8	554.04	.73	8	33 240.4	50	82 713.3	273.1
19	9	9	584.81	.73	9	35 087.2	55	90 984.5	330.4
27 20	30.779	20	615.59	1846.74	20	36 933.9	1 00	99 255.7	393.2
21	9	1	646.37	.74	1	38 780.6	05	107 526.8	461.5
22	9	2	677.15	.75	2	40 627.4	10	115 797.9	535.2
23	9	3	707.93	.75	3	42 474.1	15	124 068.9	614.4
24	9	4	738.71	.76	4	44 320.9	20	132 339.9	699.1
27 25	30.779	25	769.49	1846.76	25	46 167.6	1 25	140 610.8	789.2
26	9	6	800.27	.77	6	48 014.4	30	148 881.6	884.8
27	9	7	831.05	.77	7	49 861.2	35	157 152.3	985.8
28	80	8	861.83	.77	8	51 707.9	40	165 423.1	1 092.3
29	0	9	892.61	.78	9	53 554.7	45	173 693.7	1 204.3
27 30	30.780	30	923.39	1846.78	30	55 401.5	1 50	181 964.3	1 321.7
31	0	1	954.17	.79	1	57 248.3	55	190 234.7	1 444.6
32	0	2	984.95	.79	2	59 095.1	2 00	198 505	1 573
33	0	3	1 015.73	.80	3	60 941.9	3 00	297 742	3 539
34	0	4	1 046.51	.80	4	62 788.7	4 00	396 960	6 291
27 35	30.780	35	1 077.29	1846.81	35	64 635.5	5 00	496 154	9 829
36	0	6	1 108.07	.81	6	66 482.3	6 00	595 316	14 154
37	0	7	1 138.85	.81	7	68 329.1	7 00	694 440	19 264
38	0	8	1 169.63	.82	8	70 175.9	8 00	793 522	25 159
39	0	9	1 200.41	.82	9	72 022.7	9 00	892 554	31 839
27 40	30.780	40	1 231.19	1846.83	40	73 869.6	10 00	991 529	39 303
41	1	1	1 261.97	.83	1	75 716.4	11 00	1 090 442	47 551
42	1	2	1 292.75	.84	2	77 563.2	12 00	1 189 287	56 583
43	1	3	1 323.53	.84	3	79 410.1	13 00	1 288 057	66 398
44	1	4	1 354.31	.85	4	81 256.9	14 00	1 386 746	76 995
27 45	30.781	45	1 385.09	1846.85	45	83 103.7	15 00	1 485 348	88 374
46	1	6	1 415.87	.86	6	84 950.6	16 00	1 583 857	100 534
47	1	7	1 446.65	.86	7	86 797.5	17 00	1 682 267	113 474
48	1	8	1 477.43	.86	8	88 644.3	18 00	1 780 570	127 193
49	1	9	1 508.21	.87	9	90 491.2	19 00	1 878 762	141 690
27 50	30.781	50	1 538.99	1846.87	50	92 338.1	20 00	1 976 836	156 966
51	1	1	1 569.77	.88	1	94 184.9	21 00	2 074 786	173 018
52	1	2	1 600.55	.88	2	96 031.8	22 00	2 172 606	189 845
53	1	3	1 631.33	.89	3	97 878.7	23 00	2 270 289	207 447
54	2	4	1 662.11	.89	4	99 725.6	24 00	2 367 830	225 823
27 55	30.782	55	1 692.88	1846.90	55	101 572.5	25 00	2 465 222	244 970
56	2	6	1 723.66	.90	6	103 419.4	26 00	2 562 459	264 889
57	2	7	1 754.44	.90	7	105 266.3	27 00	2 659 535	285 577
58	2	8	1 785.22	.91	8	107 113.2	28 00	2 756 445	307 035
59	2	9	1 816.00	.91	9	108 960.1	29 00	2 853 181	329 259
27 60	30.782	60	1 846.78	1846.92	60	110 807.0	30 00	2 949 739	352 249

Latitude 28° to 29°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
28 00	27.323	54.65	81.97	109.29	136.62	163.94	191.26	218.59	245.91	1639.4	3278.8	4918.2	6557.6	8197.0
1	.319	.64	.96	.27	.60	.91	.23	.56	.87	9.1	8.3	7.4	6.6	5.7
2	.315	.63	.94	.26	.58	.89	.20	.52	.83	8.9	7.8	6.7	5.6	4.4
3	.311	.62	.93	.24	.56	.86	.17	.49	.80	8.6	7.3	5.9	4.5	3.2
4	.306	.61	.92	.22	.54	.84	.14	.45	.76	8.4	6.8	5.2	3.5	1.9
28 05	27.302	54.60	81.91	109.21	136.51	163.81	191.12	218.42	245.72	1638.1	3276.3	4914.4	6552.5	8190.7
6	.298	.60	.89	.19	.49	.79	.09	.39	.68	7.9	5.8	3.6	1.5	89.4
7	.294	.59	.88	.17	.47	.76	.06	.35	.66	7.6	5.3	2.9	50.5	8.1
8	.290	.58	.87	.15	.45	.74	.03	.32	.61	7.4	4.7	2.1	49.5	6.9
9	.285	.57	.86	.14	.43	.71	1.00	.28	.57	7.1	4.2	1.4	8.5	5.6
28 10	27.281	54.56	81.84	109.12	136.41	163.69	190.97	218.25	245.53	1636.9	3273.7	4910.6	6547.5	8184.3
11	.277	.55	.83	.10	.39	.66	.94	.22	.49	6.6	3.2	09.8	6.5	3.1
12	.273	.54	.82	.09	.37	.64	.91	.18	.45	6.4	2.7	9.1	5.4	1.8
13	.268	.54	.80	.07	.34	.61	.88	.15	.42	6.1	2.2	8.5	4.4	80.5
14	.264	.53	.79	.05	.32	.59	.85	.11	.38	5.9	1.7	7.6	3.4	79.3
28 15	27.260	54.52	81.78	109.04	136.30	163.56	190.82	218.08	245.34	1635.6	3271.2	4906.8	6542.4	8178.0
16	.256	.51	.77	.02	.28	.53	.79	.05	.30	5.3	0.7	6.0	1.4	6.7
17	.251	.50	.75	9.00	.26	.51	.76	8.01	.26	5.1	70.2	5.3	40.3	5.4
18	.247	.50	.74	8.98	.23	.48	.73	7.98	.23	4.8	69.6	4.5	39.3	4.2
19	.243	.49	.73	.97	.21	.46	.70	.94	.19	4.6	9.1	3.8	8.3	2.9
28 20	27.239	54.48	81.72	108.95	136.19	163.43	190.67	217.91	245.15	1634.3	3268.6	4903.0	6537.3	8171.6
21	.234	.47	.70	.93	.17	.41	.64	.88	.11	4.1	8.1	2.2	6.3	70.3
22	.230	.46	.69	.92	.15	.38	.61	.84	.07	3.8	7.6	1.4	5.2	69.1
23	.226	.45	.68	.90	.13	.36	.58	.81	.03	3.6	7.1	900.7	4.2	7.8
24	.222	.44	.67	.88	.11	.33	.55	.77	5.01	3.3	6.6	899.9	3.2	6.5
28 25	27.217	54.44	81.65	108.87	136.08	163.30	190.52	217.74	244.96	1633.0	3266.1	4899.1	6532.2	8165.2
26	.213	.43	.64	.85	.06	.28	.49	.71	.92	2.8	5.6	8.3	1.2	3.9
27	.209	.42	.63	.83	.04	.25	.46	.67	.88	2.5	5.1	7.6	30.1	2.7
28	.205	.41	.61	.81	.02	.23	.43	.64	.84	2.3	4.5	6.8	29.1	1.4
29	.200	.40	.60	.80	6.00	.20	.40	.60	.80	2.0	4.0	6.1	8.1	60.1
28 30	27.196	54.39	81.59	108.78	135.98	163.18	190.37	217.57	244.76	1631.8	3263.5	4895.3	6527.1	8158.8
31	.192	.38	.58	.76	.96	.15	.34	.54	.72	1.5	3.0	4.5	6.0	7.5
32	.188	.37	.56	.75	.94	.13	.31	.50	.68	1.3	2.5	3.7	5.0	6.3
33	.183	.37	.55	.73	.92	.10	.28	.47	.65	1.0	2.0	3.0	4.0	5.0
34	.179	.36	.54	.71	.90	.08	.25	.43	.61	0.8	1.5	2.2	2.9	3.7
28 35	27.175	54.35	81.52	108.70	135.87	163.05	190.22	217.40	244.57	1630.5	3261.0	4891.4	6521.9	8152.4
36	.170	.34	.51	.68	.85	.02	.19	.37	.53	0.2	0.5	90.6	20.9	51.1
37	.166	.33	.50	.66	.83	3.00	.16	.33	.49	30.0	60.0	89.9	19.9	49.8
38	.162	.33	.49	.64	.81	2.97	.13	.30	.46	29.7	59.4	9.1	8.8	8.5
39	.158	.32	.47	.63	.79	.95	.10	.26	.42	9.5	8.9	8.4	7.8	7.3
28 40	27.153	54.31	81.46	108.61	135.77	162.92	190.07	217.23	244.38	1629.2	3258.4	4887.6	6516.8	8146.0
41	.149	.30	.45	.59	.75	.89	.04	.20	.34	8.9	7.9	6.8	5.7	4.7
42	.145	.29	.43	.58	.73	.87	90.01	.16	.30	8.7	7.4	6.0	4.7	3.4
43	.140	.28	.42	.56	.70	.84	89.98	.13	.26	8.4	6.8	5.3	3.7	2.1
44	.136	.27	.41	.54	.68	.82	.95	.09	.22	8.2	6.3	4.5	2.6	40.8
28 45	27.132	54.27	81.40	108.53	135.66	162.79	189.92	217.06	244.18	1627.9	3255.8	4883.7	6511.6	8139.5
46	.127	.26	.38	.51	.64	.76	.89	7.02	.15	7.6	5.3	2.9	10.6	8.2
47	.123	.25	.37	.49	.62	.74	.86	6.99	.11	7.4	4.8	2.1	09.5	6.9
48	.119	.24	.36	.47	.59	.71	.83	.95	.07	7.1	4.2	1.4	8.5	5.6
49	.115	.23	.34	.46	.57	.69	.80	.92	4.03	6.9	3.7	80.6	7.5	4.4
28 50	27.110	54.22	81.33	108.44	135.55	162.66	189.77	216.88	243.99	1626.6	3253.2	4879.8	6506.4	8133.1
51	.106	.21	.32	.42	.53	.64	.74	.85	.95	6.4	2.7	9.1	5.4	1.8
52	.102	.20	.30	.41	.51	.61	.71	.81	.91	6.1	2.2	8.2	4.4	30.5
53	.097	.19	.29	.39	.48	.58	.68	.78	.87	5.8	1.6	7.5	3.3	29.2
54	.093	.18	.28	.37	.46	.56	.65	.74	.83	5.6	1.1	6.7	2.3	7.9
28 55	27.089	54.18	81.27	108.36	135.44	162.53	189.62	216.71	243.80	1625.3	3250.6	4875.9	6501.2	8126.6
56	.084	.17	.25	.34	.42	.51	.59	.68	.76	5.1	50.1	5.2	500.2	5.3
57	.080	.16	.24	.32	.40	.48	.56	.64	.72	4.8	49.6	4.3	499.2	4.0
58	.076	.15	.23	.30	.37	.45	.53	.61	.68	4.5	9.0	3.6	8.1	2.7
59	.071	.14	.21	.29	.35	.43	.50	.57	.64	4.3	8.5	2.8	7.1	1.4
28 60	27.067	54.13	81.20	108.27	135.33	162.40	189.47	216.54	243.60	1624.0	3248.0	4872.0	6496.1	8120.1

TERRESTRIAL ARCS

Lat.	Latitude 28° to 29°—Meridional arcs						Latitude 28°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 28°30'		Value of 1'	Continuous sums of minutes from latitude 28°00'		Longitude	X	Y
	<i>Meters</i>	''	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
28 00	30.782			1846.92			0 1	1 639.4	0.1
1	2	1	30.78	.92	1	1 846.9	2	3 278.8	0.4
2	2	2	61.57	.93	2	3 693.8	3	4 918.2	1.0
3	2	3	92.35	.93	3	5 540.8	4	6 557.6	1.8
4	2	4	123.14	.94	4	7 387.7			
28 05	30.782	5	153.92	1846.94	5	9 234.6	0 5	8 197.0	2.8
6	2	6	184.71	.95	6	11 081.6	6	9 836.4	4.0
7	2	7	215.49	.95	7	12 928.5	7	11 475.7	5.5
8	3	8	246.27	.95	8	14 775.5	8	13 115.1	7.2
9	3	9	277.06	.96	9	16 622.5	9	14 754.5	9.1
28 10	30.783	10	307.84	1846.96	10	18 469.4	0 10	16 393.9	11.2
11	3	1	338.63	.97	1	20 316.4	15	24 590.9	25.2
12	3	2	369.41	.97	2	22 163.3	20	32 787.9	44.8
13	3	3	400.20	.98	3	24 010.3	25	40 984.8	70.0
14	3	4	430.98	.98	4	25 857.3	30	49 181.7	100.7
28 15	30.783	15	461.76	1846.99	15	27 704.3	0 35	57 378.6	137.1
16	3	6	492.55	6.99	6	29 551.3	40	65 575.5	179.1
17	3	7	523.33	7.00	7	31 398.3	45	73 772.4	226.7
18	3	8	554.12	.00	8	33 245.3	50	81 969.2	279.8
19	3	9	584.90	.00	9	35 092.3	55	90 165.9	338.6
28 20	30.783	20	615.69	1847.01	20	36 939.3	1 00	98 362.6	403.0
21	4	1	646.47	.01	1	38 786.3	05	106 559.3	472.9
22	4	2	677.25	.02	2	40 633.3	10	114 756.0	548.5
23	4	3	708.04	.02	3	42 480.3	15	122 952.5	629.6
24	4	4	738.82	.03	4	44 327.4	20	131 149.0	716.4
28 25	30.784	25	769.61	1847.03	25	46 174.4	1 25	139 345.5	808.7
26	4	6	800.39	.04	6	48 021.4	30	147 541.9	906.7
27	4	7	831.17	.04	7	49 868.5	35	155 738.2	1 010.2
28	4	8	861.96	.05	8	51 715.5	40	163 934.5	1 119.4
29	4	9	892.74	.05	9	53 562.5	45	172 130.7	1 234.1
28 30	30.784	30	923.53	1847.06	30	55 409.6	1 50	180 326.8	1 354.4
31	4	1	954.31	.06	1	57 256.7	55	188 522.8	1 480.4
32	4	2	985.10	.06	2	59 103.7	2 00	196 719	1 612
33	4	3	1 015.88	.07	3	60 950.8	3 00	295 062	3 627
34	5	4	1 046.66	.07	4	62 797.9	4 00	393 385	6 447
28 35	30.785	35	1 077.45	1847.08	35	64 644.9	5 00	491 682	10 073
36	5	6	1 108.23	.08	6	66 492.0	6 00	589 945	14 505
37	5	7	1 139.02	.09	7	68 339.1	7 00	688 168	19 741
38	5	8	1 169.80	.09	8	70 186.2	8 00	786 347	25 782
39	5	9	1 200.59	.10	9	72 033.3	9 00	884 472	32 627
28 40	30.785	40	1 231.37	1847.10	40	73 880.4	10 00	982 537	40 276
41	5	1	1 262.15	.11	1	75 727.5	11 00	1 080 537	48 728
42	5	2	1 292.94	.11	2	77 574.6	12 00	1 178 464	57 983
43	5	3	1 323.72	.11	3	79 421.7	13 00	1 276 312	68 040
44	5	4	1 354.51	.12	4	81 268.8	14 00	1 374 075	78 899
28 45	30.785	45	1 385.29	1847.12	45	83 115.9	15 00	1 471 745	90 558
46	5	6	1 416.08	.13	6	84 963.1	16 00	1 569 315	103 017
47	6	7	1 446.86	.13	7	86 810.2	17 00	1 666 781	116 275
48	6	8	1 477.64	.14	8	88 657.3	18 00	1 764 135	130 331
49	6	9	1 508.43	.14	9	90 504.5	19 00	1 861 371	145 185
28 50	30.786	50	1 539.21	1847.15	50	92 351.6	20 00	1 958 481	160 835
51	6	1	1 570.00	.15	1	94 198.8	21 00	2 055 460	177 280
52	6	2	1 600.78	.16	2	96 045.9	22 00	2 152 302	194 518
53	6	3	1 631.57	.16	3	97 893.1	23 00	2 248 998	212 550
54	6	4	1 662.35	.17	4	99 740.2	24 00	2 345 544	231 374
28 55	30.786	55	1 693.13	1847.17	55	101 587.4	25 00	2 441 932	250 988
56	6	6	1 723.92	.17	6	103 434.6	26 00	2 538 156	271 391
57	6	7	1 754.70	.18	7	105 281.8	27 00	2 634 210	292 582
58	6	8	1 785.49	.18	8	107 128.9	28 00	2 730 087	314 559
59	6	9	1 816.27	.19	9	108 976.1	29 00	2 825 779	337 321
28 60	30.787	60	1 847.06	1847.19	60	110 823.3	30 00	2 921 284	360 866

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 29° to 30°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
29 00	27.067	54.13	81.20	108.27	135.33	162.40	189.47	216.54	243.60	1624.0	3248.0	4872.0	6496.1	8120.1
1	.063	.12	.19	.25	.31	.38	.44	.50	.56	3.8	7.5	1.2	5.0	18.8
2	.058	.11	.17	.23	.29	.35	.41	.47	.52	3.5	7.0	70.4	4.0	7.5
3	.054	.11	.16	.22	.27	.32	.38	.43	.48	3.2	6.4	69.7	2.9	6.1
4	.049	.10	.15	.20	.25	.30	.35	.40	.44	3.0	5.9	8.9	1.9	4.8
29 05	27.045	54.09	81.13	108.18	135.22	162.27	189.31	216.36	243.40	1622.7	3245.4	4868.1	6490.8	8113.5
6	.041	.08	.12	.16	.20	.24	.28	.33	.37	2.4	4.9	7.3	89.8	2.2
7	.036	.07	.11	.14	.18	.22	.25	.29	.33	2.2	4.4	6.5	8.7	10.9
8	.032	.07	.10	.13	.16	.19	.22	.26	.29	1.9	3.8	5.8	7.7	09.6
9	.028	.06	.08	.11	.14	.17	.19	.22	.25	1.7	3.3	5.0	6.6	8.3
29 10	27.023	54.05	81.07	108.09	135.12	162.14	189.16	216.19	243.21	1621.4	3242.8	4864.2	6485.6	8107.0
11	.019	.04	.06	.07	.10	.11	.13	.15	.17	1.1	2.3	3.4	4.6	5.7
12	.015	.03	.04	.06	.08	.09	.10	.12	.13	0.9	1.8	2.6	3.5	4.4
13	.010	.02	.03	.04	.05	.06	.07	.08	.09	0.6	1.2	1.9	2.5	3.1
14	.006	.01	.02	.02	.03	.03	.04	.05	.05	0.3	0.7	1.1	1.4	1.7
29 15	27.001	54.00	81.00	108.00	135.01	162.01	189.01	216.01	243.02	1620.1	3240.2	4860.3	6480.4	8100.4
16	6.997	4.00	0.99	7.99	4.99	1.98	8.98	5.98	2.97	19.8	39.6	59.5	79.3	099.1
17	.993	3.99	.98	.97	.97	.96	.95	.94	.93	9.6	9.1	8.7	8.3	7.8
18	.988	.98	.97	.95	.94	.93	.92	.91	.90	9.3	8.6	7.9	7.2	6.5
19	.984	.97	.95	.94	.92	.90	.89	.87	.86	9.0	8.1	7.1	6.2	5.2
29 20	26.980	53.96	80.94	107.92	134.90	161.88	188.86	215.84	242.82	1618.8	3237.6	4856.3	6475.1	8093.9
21	.975	.95	.93	.90	.88	.85	.83	.80	.78	8.5	7.0	5.5	4.1	2.6
22	.971	.94	.91	.88	.85	.82	.80	.77	.74	8.2	6.5	4.7	3.0	91.2
23	.966	.93	.90	.87	.83	.80	.77	.73	.70	8.0	6.0	4.0	1.9	89.9
24	.962	.92	.89	.85	.81	.77	.74	.70	.66	7.7	5.4	3.2	70.9	8.6
29 25	26.958	53.91	80.87	107.83	134.79	161.75	188.70	215.66	242.62	1617.5	3234.9	4852.4	6469.8	8087.3
26	.953	.91	.86	.81	.77	.72	.67	.62	.58	7.2	4.4	1.6	8.8	6.0
27	.949	.90	.85	.79	.75	.69	.64	.59	.54	6.9	3.8	0.8	7.7	4.6
28	.944	.89	.83	.78	.72	.67	.61	.55	.50	6.7	3.3	50.0	6.6	3.3
29	.940	.88	.82	.76	.70	.64	.58	.52	.46	6.4	2.8	49.2	5.6	2.0
29 30	26.936	53.87	80.81	107.74	134.68	161.61	188.55	215.48	242.42	1616.1	3232.3	4848.4	6464.5	8080.7
31	.931	.86	.79	.72	.66	.59	.52	.45	.38	5.9	1.8	7.6	3.5	79.4
32	.927	.85	.78	.71	.64	.56	.49	.41	.34	5.6	1.2	6.8	2.4	8.0
33	.922	.84	.77	.69	.61	.53	.46	.38	.30	5.3	0.7	6.0	1.4	6.7
34	.918	.83	.75	.67	.59	.51	.43	.34	.26	5.1	30.2	5.2	60.3	5.4
29 35	26.913	53.83	80.74	107.66	134.57	161.48	188.39	215.31	242.22	1614.8	3229.6	4844.4	6459.2	8074.0
36	.909	.82	.73	.64	.55	.45	.36	.27	.18	4.5	9.1	3.6	8.2	2.7
37	.905	.81	.71	.62	.53	.43	.33	.24	.14	4.3	8.6	2.8	7.1	1.4
38	.900	.80	.70	.60	.50	.40	.30	.20	.10	4.0	8.0	2.0	6.0	70.1
39	.896	.79	.69	.59	.48	.37	.27	.17	.06	3.7	7.5	1.2	5.0	68.7
29 40	26.891	53.78	80.67	107.57	134.46	161.35	188.24	215.13	242.02	1613.5	3227.0	4840.4	6453.9	8067.4
41	.887	.77	.66	.55	.44	.32	.21	.10	1.98	3.2	6.4	39.6	2.9	6.1
42	.882	.76	.65	.53	.41	.29	.18	.06	.94	2.9	5.9	8.8	1.8	4.7
43	.878	.75	.63	.51	.39	.27	.15	5.02	.90	2.7	5.4	8.0	50.7	3.4
44	.874	.75	.62	.50	.37	.24	.12	4.99	.86	2.4	4.8	7.2	49.7	2.1
29 45	26.869	53.74	80.61	107.48	134.35	161.21	188.08	214.95	241.82	1612.1	3224.3	4836.4	6448.6	8060.7
46	.865	.73	.59	.46	.33	.19	.05	.92	.78	1.9	3.8	5.6	7.5	59.4
47	.860	.72	.58	.44	.31	.16	8.02	.88	.74	1.6	3.2	4.8	6.5	8.1
48	.856	.71	.57	.43	.28	.13	7.99	.85	.70	1.3	2.7	4.1	5.4	6.7
49	.851	.70	.55	.41	.26	.11	.96	.81	.66	1.1	2.2	3.3	4.3	5.4
29 50	26.847	53.69	80.54	107.39	134.24	161.08	187.93	214.78	241.62	1610.8	3221.6	4832.5	6443.3	8054.1
51	.842	.68	.53	.37	.21	.05	.90	.74	.58	0.5	1.1	1.7	2.2	2.7
52	.838	.67	.51	.35	.19	.03	.87	.70	.54	0.3	0.6	0.9	1.1	1.4
53	.834	.67	.50	.34	.17	1.00	.84	.67	.50	10.0	20.0	30.0	40.1	50.1
54	.829	.66	.49	.32	.15	0.97	.81	.63	.46	09.7	19.5	29.2	39.0	48.7
29 55	26.825	53.65	80.47	107.30	134.12	160.95	187.77	214.60	241.42	1609.5	3219.0	4828.4	6437.9	8047.4
56	.820	.64	.46	.28	.10	.92	.74	.56	.38	9.2	8.4	7.6	6.8	6.0
57	.816	.63	.45	.26	.08	.89	.71	.53	.34	8.9	7.9	6.8	5.8	4.7
58	.811	.62	.43	.25	.06	.87	.68	.49	.30	8.7	7.4	6.0	4.7	3.4
59	.807	.61	.42	.23	.03	.84	.65	.45	.26	8.4	6.8	5.2	3.6	2.0
29 60	26.802	53.60	80.41	107.21	134.01	160.81	187.62	214.42	241.22	1608.1	3216.3	4824.4	6432.5	8040.7

TERRESTRIAL ARCS

Lat.	Latitude 29° to 30°—Meridional arcs						Latitude 29°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 29°30'		Value of 1'	Continuous sums of minutes from latitude 29°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
29 00	30.787			1847.19			0 1	1 624.0	0.1
1	7	1	30.79	.20	1	1 847.2	0 2	3 248.0	0.5
2	7	2	61.58	.20	2	3 694.4	0 3	4 872.0	1.0
3	7	3	92.37	.21	3	5 541.6	0 4	6 496.1	1.8
4	7	4	123.16	.21	4	7 388.8			
29 05	30.787	5	153.94	1847.22	5	9 236.0	0 5	8 120.1	2.9
6	7	6	184.73	.22	6	11 083.2	0 6	9 744.1	4.1
7	7	7	215.52	.23	7	12 930.5	0 7	11 368.1	5.6
8	7	8	246.31	.23	8	14 777.7	0 8	12 992.1	7.3
9	7	9	277.10	.24	9	16 624.9	0 9	14 616.1	9.3
29 10	30.787	10	307.89	1847.24	10	18 472.2	0 10	16 240.1	11.5
11	7	1	338.68	.24	1	20 319.4	0 15	24 360.2	25.8
12	7	2	369.47	.25	2	22 166.7	0 20	32 480.2	45.8
13	8	3	400.26	.25	3	24 013.9	0 25	40 600.2	71.6
14	8	4	431.04	.26	4	25 861.2	0 30	48 720.3	103.1
29 15	30.788	15	461.83	1847.26	15	27 708.4	0 35	56 840.2	140.3
16	8	6	492.62	.27	6	29 555.7	0 40	64 960.2	183.2
17	8	7	523.41	.27	7	31 403.0	0 45	73 080.1	231.9
18	8	8	554.20	.28	8	33 250.2	0 50	81 200.0	286.3
19	8	9	584.99	.28	9	35 097.5	0 55	89 319.8	346.4
29 20	30.788	20	615.78	1847.29	20	36 944.8	1 00	97 439.6	412.2
21	8	1	646.57	.29	1	38 792.1	1 05	105 559.4	483.8
22	8	2	677.36	.30	2	40 639.4	1 10	113 679.1	561.1
23	8	3	708.14	.30	3	42 486.7	1 15	121 798.7	644.1
24	8	4	738.93	.31	4	44 334.0	1 20	129 918.3	732.9
29 25	30.788	25	769.72	1847.31	25	46 181.3	1 25	138 037.8	827.4
26	9	6	800.51	.31	6	48 028.6	1 30	146 157.3	927.6
27	9	7	831.30	.32	7	49 875.9	1 35	154 276.7	1 033.5
28	9	8	862.09	.32	8	51 723.2	1 40	162 396.0	1 145.1
29	9	9	892.88	.33	9	53 570.6	1 45	170 515.2	1 262.5
29 30	30.789	30	923.67	1847.33	30	55 417.9	1 50	178 634.3	1 385.6
31	9	1	954.46	.34	1	57 265.2	1 55	186 753.4	1 514.4
32	9	2	985.24	.34	2	59 112.6	2 00	194 872	1 649
33	9	3	1 016.03	.35	3	60 959.9	2 05	202 991	1 784
34	9	4	1 046.82	.35	4	62 807.3	2 10	211 110	1 919
29 35	30.789	35	1 077.61	1847.36	35	64 654.6	2 15	219 229	2 054
36	9	6	1 108.40	.36	6	66 502.0	2 20	227 348	2 189
37	89	7	1 139.19	.37	7	68 349.3	2 25	235 467	2 324
38	90	8	1 169.98	.37	8	70 196.7	2 30	243 586	2 459
39	0	9	1 200.77	.38	9	72 044.1	2 35	251 705	2 594
29 40	30.790	40	1 231.56	1847.38	40	73 891.5	2 40	259 824	2 729
41	0	1	1 262.34	.38	1	75 738.9	2 45	267 943	2 864
42	0	2	1 293.13	.39	2	77 586.2	2 50	276 062	2 999
43	0	3	1 323.92	.39	3	79 433.6	2 55	284 181	3 134
44	0	4	1 354.71	.40	4	81 281.0	2 60	292 300	3 269
29 45	30.790	45	1 385.50	1847.40	45	83 128.4	2 65	300 419	3 404
46	0	6	1 416.29	.41	6	84 975.8	2 70	308 538	3 539
47	0	7	1 447.08	.41	7	86 823.2	2 75	316 657	3 674
48	0	8	1 477.87	.42	8	88 670.7	2 80	324 776	3 809
49	0	9	1 508.66	.42	9	90 518.1	2 85	332 895	3 944
29 50	30.790	50	1 539.44	1847.43	50	92 365.5	2 90	341 014	4 079
51	1	1	1 570.23	.43	1	94 212.9	2 95	349 133	4 214
52	1	2	1 601.02	.44	2	96 060.4	3 00	357 252	4 349
53	1	3	1 631.81	.44	3	97 907.8	3 05	365 371	4 484
54	1	4	1 662.60	.45	4	99 755.3	3 10	373 490	4 619
29 55	30.791	55	1 693.39	1847.45	55	101 602.7	3 15	381 609	4 754
56	1	6	1 724.18	.46	6	103 450.2	3 20	389 728	4 889
57	1	7	1 754.97	.46	7	105 297.6	3 25	397 847	5 024
58	1	8	1 785.76	.46	8	107 145.1	3 30	405 966	5 159
59	1	9	1 816.54	.47	9	108 992.5	3 35	414 085	5 294
60	30.791	60	1 847.33	1847.47	60	110 840.0	3 40	422 204	5 429

Latitude 30° to 31°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
30 00	26.802	53.60	80.41	107.21	134.01	160.81	187.62	214.42	241.22	1608.1	3216.3	4824.4	6432.5	8040.7
1	.798	.59	.39	.19	3.99	.79	.59	.38	.18	7.9	5.7	3.6	1.4	39.3
2	.793	.58	.38	.17	.97	.76	.56	.35	.14	7.6	5.2	2.8	30.4	8.0
3	.789	.57	.37	.16	.94	.73	.52	.31	.10	7.3	4.6	2.0	29.3	6.6
4	.784	.56	.35	.14	.92	.71	.49	.28	.06	7.1	4.1	1.2	8.3	5.3
30 05	26.780	53.55	80.34	107.12	133.90	160.68	187.46	214.24	241.02	1606.8	3213.6	4820.4	6427.2	8033.9
6	.775	.55	.33	.10	.88	.65	.43	.20	0.98	6.5	3.0	19.6	6.1	2.6
7	.771	.54	.31	.08	.86	.62	.40	.17	.94	6.2	2.5	8.8	5.0	31.3
8	.766	.53	.30	.07	.83	.60	.36	.13	.90	6.0	2.0	7.9	4.0	29.9
9	.762	.52	.29	.05	.81	.57	.33	.10	.86	5.7	1.4	7.1	2.9	8.6
30 10	26.757	53.51	80.27	107.03	133.79	160.54	187.30	214.06	240.82	1605.4	3210.9	4816.3	6421.8	8027.2
11	.753	.50	.26	7.01	.77	.52	.27	4.02	.78	5.2	10.4	5.5	20.7	5.9
12	.748	.49	.24	6.99	.74	.49	.24	3.99	.74	4.9	09.8	4.7	19.6	4.5
13	.744	.48	.23	.98	.72	.46	.21	.95	.70	4.6	9.3	3.9	8.6	3.2
14	.739	.47	.22	.96	.70	.44	.18	.92	.65	4.4	8.7	3.1	7.5	1.8
30 15	26.735	53.46	80.20	106.94	133.68	160.41	187.14	213.88	240.61	1604.1	3208.2	4812.3	6416.4	8020.4
16	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.5	5.3	19.1
17	.726	.45	.18	.90	.63	.35	.08	.81	.53	3.5	7.1	10.7	4.2	7.7
18	.721	.44	.16	.89	.61	.33	.05	.77	.49	3.3	6.6	09.8	3.1	6.4
19	.717	.43	.15	.87	.58	.30	7.02	.73	.45	3.0	6.0	9.0	2.0	5.0
30 20	26.712	53.42	80.14	106.85	133.56	160.27	186.99	213.70	240.41	1602.7	3205.5	4808.2	6410.9	8013.7
21	.708	.41	.12	.83	.54	.24	.96	.66	.37	2.4	4.9	7.4	09.8	2.3
22	.703	.40	.11	.81	.52	.22	.93	.63	.33	2.2	4.4	6.6	8.7	11.0
23	.699	.39	.10	.80	.49	.19	.89	.59	.29	1.9	3.8	5.7	7.7	09.6
24	.694	.38	.08	.78	.47	.16	.86	.56	.25	1.6	3.3	4.9	6.6	8.2
30 25	26.690	53.37	80.07	106.76	133.45	160.14	186.83	213.52	240.21	1601.4	3202.8	4804.1	6405.5	8006.9
26	.685	.37	.06	.74	.43	.11	.80	.48	.16	1.1	2.2	3.3	4.4	5.5
27	.681	.36	.04	.72	.41	.08	.77	.45	.13	0.8	1.6	2.5	3.3	4.2
28	.676	.35	.03	.71	.38	.06	.73	.41	.08	0.6	1.1	1.6	2.3	2.8
29	.671	.34	.01	.69	.36	.03	.70	.38	.04	0.3	0.6	0.8	1.2	1.4
30 30	26.667	53.33	80.00	106.67	133.34	160.00	186.67	213.34	240.00	1600.0	3200.0	4800.0	6400.1	8000.1
31	.662	.32	79.99	.65	.32	59.97	.64	.30	39.96	599.7	199.5	799.2	399.0	7998.7
32	.658	.31	.97	.63	.29	.95	.61	.27	.92	9.5	8.9	8.4	7.9	7.3
33	.653	.30	.96	.62	.27	.92	.57	.23	.88	9.2	8.4	7.5	6.8	6.0
34	.649	.29	.95	.60	.25	.89	.54	.19	.84	8.9	7.8	6.7	5.7	4.6
30 35	26.644	53.29	79.93	106.58	133.22	159.86	186.51	213.15	239.80	1598.6	3197.3	4795.9	6394.6	7993.2
36	.640	.28	.92	.56	.20	.84	.48	.12	.76	8.4	6.8	5.1	3.5	1.9
37	.635	.27	.90	.54	.18	.81	.45	.08	.71	8.1	6.2	4.3	2.4	90.5
38	.630	.26	.89	.52	.16	.78	.41	.04	.67	7.8	5.7	3.4	1.3	89.1
39	.626	.25	.88	.51	.13	.76	.38	3.01	.63	7.6	5.1	2.6	90.2	7.8
30 40	26.621	53.24	79.86	106.49	133.11	159.73	186.35	212.97	239.59	1597.3	3194.6	4791.8	6389.1	7986.4
41	.617	.23	.85	.47	.09	.70	.32	.93	.55	7.0	4.0	1.0	8.0	5.0
42	.612	.22	.84	.45	.06	.67	.29	.90	.51	6.7	3.5	90.2	6.9	3.6
43	.608	.21	.82	.43	.04	.65	.25	.86	.47	6.5	2.9	89.3	5.8	2.3
44	.603	.20	.81	.41	.02	.62	.22	.82	.43	6.2	2.4	8.5	4.7	80.9
30 45	26.598	53.19	79.80	106.40	133.00	159.59	186.19	212.79	239.39	1595.9	3191.8	4787.7	6383.6	7979.5
46	.594	.19	.78	.38	2.97	.56	.16	.75	.35	5.6	1.3	6.9	2.5	8.2
47	.589	.18	.77	.36	.95	.53	.13	.71	.30	5.3	0.7	6.1	1.4	6.8
48	.585	.17	.75	.34	.93	.51	.09	.68	.26	5.1	90.2	5.2	80.3	5.4
49	.580	.16	.74	.32	.90	.48	.06	.64	.22	4.8	89.6	4.4	79.2	4.0
30 50	26.576	53.15	79.73	106.30	132.88	159.45	186.03	212.60	239.18	1594.5	3189.1	4783.6	6378.1	7972.7
51	.571	.14	.71	.28	.86	.42	6.00	.57	.14	4.2	8.5	2.8	7.0	71.3
52	.566	.13	.70	.26	.83	.40	5.97	.53	.10	4.0	8.0	2.0	5.9	69.9
53	.562	.12	.69	.25	.81	.37	.93	.49	.06	3.7	7.4	1.1	4.8	8.5
54	.557	.11	.67	.23	.79	.34	.90	.46	.01	3.4	6.9	4780.3	3.7	7.1
30 55	26.553	53.10	79.66	106.21	132.76	159.32	185.87	212.42	238.97	1593.2	3186.3	4779.5	6372.6	7965.8
56	.548	.10	.64	.19	.74	.29	.84	.38	.93	2.9	5.8	8.7	1.5	4.4
57	.543	.09	.63	.17	.72	.26	.81	.35	.89	2.6	5.2	7.8	70.4	3.0
58	.539	.08	.62	.16	.70	.23	.77	.31	.85	2.3	4.6	7.0	69.3	1.6
59	.534	.07	.60	.14	.67	.21	.74	.27	.81	2.1	4.1	6.1	8.2	60.2
30 60	26.530	53.06	79.59	106.12	132.65	159.18	185.71	212.24	238.77	1591.8	3183.5	4775.3	6367.1	7958.9

TERRESTRIAL ARCS

Lat.	Latitude 30° to 31°—Meridional arcs						Latitude 30°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 30°30'		Value of 1'	Continuous sums of minutes from latitude 30°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
30 00	30.791			1847.47			0 1	1 608.1	0.1
1	1	1	30.79	.48	1	1 847.5	2	3 216.3	0.5
2	1	2	61.59	.48	2	3 695.0	3	4 824.4	1.1
3	1	3	92.38	.49	3	5 542.4	4	6 432.6	1.9
4	2	4	123.17	.49	4	7 389.9			
30 05	30.792	5	153.97	1847.50	5	9 237.4	0 5	8 040.7	2.9
6	2	6	184.76	.50	6	11 084.9	6	9 648.8	4.2
7	2	7	215.56	.51	7	12 932.4	7	11 257.0	5.7
8	2	8	246.35	.51	8	14 779.9	8	12 865.1	7.5
9	2	9	277.14	.52	9	16 627.4	9	14 473.2	9.5
30 10	30.792	10	307.94	1847.52	10	18 475.0	0 10	16 081.4	11.7
11	2	1	338.73	.53	1	20 322.5	15	24 122.0	26.3
12	2	2	369.52	.53	2	22 170.0	20	32 162.7	46.8
13	2	3	400.32	.54	3	24 017.5	25	40 203.3	73.1
14	2	4	431.11	.54	4	25 865.1	30	48 244.0	105.3
30 15	30.792	15	461.90	1847.55	15	27 712.6	0 35	56 284.6	143.3
16	3	6	492.70	.55	6	29 560.2	40	64 325.1	187.1
17	3	7	523.49	.56	7	31 407.7	45	72 365.6	236.8
18	3	8	554.29	.56	8	33 255.3	50	80 406.1	292.4
19	3	9	585.08	.56	9	35 102.8	55	88 446.6	353.8
30 20	30.793	20	615.87	1847.57	20	36 950.4	1 00	96 487.0	421.0
21	3	1	646.67	.57	1	38 798.0	05	104 527.3	494.1
22	3	2	677.46	.58	2	40 645.5	10	112 567.6	573.0
23	3	3	708.25	.58	3	42 493.1	15	120 607.9	657.8
24	3	4	739.05	.59	4	44 340.7	20	128 648.0	748.4
30 25	30.793	25	769.84	1847.59	25	46 188.3	1 25	136 688.1	844.9
26	3	6	800.63	.60	6	48 035.9	30	144 728.2	947.3
27	3	7	831.43	.60	7	49 883.5	35	152 768.2	1 055.4
28	3	8	862.22	.61	8	51 731.1	40	160 808.0	1 169.4
29	4	9	893.01	.61	9	53 578.7	45	168 847.8	1 289.3
30 30	30.794	30	923.81	1847.62	30	55 426.3	1 50	176 887.5	1 415.0
31	4	1	954.60	.62	1	57 273.9	55	184 927.1	1 546.6
32	4	2	985.40	.63	2	59 121.6	2 00	192 967	1 684
33	4	3	1 016.19	.63	3	60 969.2	3 00	289 432	3 789
34	4	4	1 046.98	.64	4	62 816.8	4 00	385 875	6 735
30 35	30.794	35	1 077.78	1847.64	35	64 664.5	5 00	482 288	10 523
36	4	6	1 108.57	.65	6	66 512.1	6 00	578 665	15 153
37	4	7	1 139.36	.65	7	68 359.8	7 00	674 998	20 623
38	4	8	1 170.16	.66	8	70 207.4	8 00	771 279	26 934
39	4	9	1 200.95	.66	9	72 055.1	9 00	867 502	34 084
30 40	30.794	40	1 231.74	1847.66	40	73 902.7	10 00	963 658	42 074
41	4	1	1 262.54	.67	1	75 750.4	11 00	1 059 741	50 903
42	5	2	1 293.33	.67	2	77 598.1	12 00	1 155 744	60 570
43	5	3	1 324.13	.68	3	79 445.8	13 00	1 251 658	71 074
44	5	4	1 354.92	.68	4	81 293.4	14 00	1 347 477	82 415
30 45	30.795	45	1 385.71	1847.69	45	83 141.1	15 00	1 443 193	94 591
46	5	6	1 416.51	.69	6	84 988.8	16 00	1 538 800	107 608
47	5	7	1 447.30	.70	7	86 836.5	17 00	1 634 290	121 449
48	5	8	1 478.09	.70	8	88 684.2	18 00	1 729 654	136 127
49	5	9	1 508.89	.71	9	90 531.9	19 00	1 824 887	151 637
30 50	30.795	50	1 539.68	1847.71	50	92 379.6	20 00	1 919 982	167 977
51	5	1	1 570.47	.72	1	94 227.4	21 00	2 014 930	185 147
52	5	2	1 601.27	.72	2	96 075.1	22 00	2 109 725	203 143
53	5	3	1 632.06	.73	3	97 922.8	23 00	2 204 359	221 966
54	6	4	1 662.86	.73	4	99 770.5	24 00	2 298 825	241 616
30 55	30.796	55	1 693.65	1847.74	55	101 618.3	25 00	2 393 116	262 089
56	6	6	1 724.44	.74	6	103 466.0	26 00	2 487 224	283 383
57	6	7	1 755.24	.75	7	105 313.7	27 00	2 581 144	305 498
58	6	8	1 786.03	.75	8	107 161.5	28 00	2 674 867	328 432
59	6	9	1 816.82	.76	9	109 009.2	29 00	2 768 385	352 183
30 60	30.796	60	1 847.62	1847.76	60	110 857.0	30 00	2 861 694	376 749

Latitude 31° to 32°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
31 00	26.530	53.06	79.59	106.12	132.65	159.18	185.71	212.24	238.77	1591.8	3183.5	4775.3	6367.1	7958.9
1	.525	.05	.58	.10	.63	.15	.68	.20	.73	1.5	3.0	4.5	6.0	7.5
2	.520	.04	.56	.08	.60	.12	.64	.16	.68	1.2	2.4	3.6	4.9	6.1
3	.516	.03	.55	.06	.58	.09	.61	.13	.64	0.9	1.9	2.8	3.8	4.7
4	.511	.02	.53	.04	.56	.07	.58	.09	.60	0.7	1.3	1.9	2.6	3.3
31 05	26.506	53.02	79.52	106.03	132.53	159.04	185.55	212.05	238.56	1590.4	3180.8	4771.1	6361.5	7951.9
6	.502	.01	.51	6.01	.51	9.01	.51	2.01	.52	90.1	80.2	70.3	60.4	50.5
7	.497	3.00	.49	5.99	.49	8.98	.48	1.98	.48	89.8	79.7	69.5	59.3	49.1
8	.493	2.99	.48	.97	.47	.96	.45	.94	.43	9.6	9.1	8.6	8.2	7.8
9	.488	.98	.46	.95	.44	.93	.41	.90	.39	9.3	8.6	7.8	7.1	6.4
31 10	26.483	52.97	79.45	105.93	132.42	158.90	185.38	211.87	238.35	1589.0	3178.0	4767.0	6356.0	7945.0
11	.479	.96	.44	.91	.39	.87	.35	.83	.31	8.7	7.4	6.2	4.9	3.6
12	.474	.95	.42	.90	.37	.84	.32	.79	.27	8.4	6.9	5.3	3.8	2.2
13	.469	.94	.41	.88	.35	.82	.28	.75	.22	8.2	6.3	4.5	2.6	40.8
14	.465	.93	.39	.86	.32	.79	.25	.72	.18	7.9	5.8	3.6	1.5	39.4
31 15	26.460	52.92	79.38	105.84	132.30	158.76	185.22	211.68	238.14	1587.6	3175.2	4762.8	6350.4	7938.0
16	.455	.91	.37	.82	.28	.73	.19	.64	.10	7.3	4.6	2.0	49.3	6.6
17	.451	.90	.35	.80	.25	.70	.16	.61	.06	7.0	4.1	1.1	8.2	5.2
18	.446	.89	.34	.78	.23	.68	.12	.57	8.01	6.8	3.5	60.3	7.1	3.8
19	.441	.88	.32	.77	.21	.65	.09	.53	7.97	6.5	3.0	59.4	5.9	2.4
31 20	26.437	52.87	79.31	105.75	132.18	158.62	185.06	211.49	237.93	1586.2	3172.4	4758.6	6344.8	7931.0
21	.432	.86	.30	.73	.16	.59	5.03	.46	.89	5.9	1.8	7.8	3.7	29.6
22	.427	.85	.28	.71	.13	.56	4.99	.42	.85	5.6	1.3	6.9	2.6	8.2
23	.423	.84	.27	.69	.11	.54	.96	.38	.80	5.4	0.7	6.1	1.5	6.8
24	.418	.83	.25	.67	.09	.51	.93	.34	.76	5.1	70.2	5.2	40.3	5.4
31 25	26.413	52.83	79.24	105.65	132.06	158.48	184.89	211.31	237.72	1584.8	3169.6	4754.4	6339.2	7924.0
26	.409	.82	.23	.63	.04	.45	.86	.27	.68	4.5	9.0	3.6	8.1	2.6
27	.404	.81	.21	.62	.02	.42	.83	.23	.64	4.2	8.5	2.7	7.0	21.2
28	.399	.80	.20	.60	2.00	.40	.80	.20	.59	4.0	7.9	1.9	5.9	19.8
29	.395	.79	.18	.58	1.97	.37	.76	.16	.55	3.7	7.4	1.0	4.7	8.4
31 30	26.390	52.78	79.17	105.56	131.95	158.34	184.73	211.12	237.51	1583.4	3166.8	4750.2	6333.6	7917.0
31	.385	.77	.16	.54	.93	.31	.70	.08	.47	3.1	6.2	49.4	2.5	5.6
32	.381	.76	.14	.52	.90	.28	.66	.05	.43	2.8	5.7	8.5	1.4	4.2
33	.376	.75	.13	.50	.88	.26	.63	1.01	.38	2.6	5.1	7.7	30.2	2.8
34	.371	.74	.11	.49	.86	.23	.60	0.97	.34	2.3	4.6	6.8	29.1	1.4
31 35	26.367	52.74	79.10	105.47	131.84	158.20	184.56	210.93	237.30	1582.0	3164.0	4746.0	6328.0	7910.0
36	.362	.73	.09	.45	.81	.17	.53	.90	.26	1.7	3.4	5.2	6.9	08.6
37	.357	.72	.07	.43	.79	.14	.50	.86	.22	1.4	2.9	4.3	5.7	7.2
38	.353	.71	.06	.41	.77	.12	.47	.82	.17	1.2	2.3	3.5	4.6	5.8
39	.348	.70	.04	.39	.74	.09	.43	.78	.13	0.9	1.8	2.6	3.5	4.4
31 40	26.343	52.69	79.03	105.37	131.72	158.06	184.40	210.75	237.09	1580.6	3161.2	4741.8	6322.4	7903.0
41	.338	.68	.02	.35	.69	.03	.37	.71	.05	0.3	0.6	0.9	1.2	1.5
42	.334	.67	9.00	.33	.67	8.00	.33	.67	7.00	80.0	60.0	40.1	20.1	900.1
43	.329	.66	8.99	.32	.65	7.98	.30	.63	6.96	79.8	59.5	39.2	19.0	898.7
44	.324	.65	.97	.30	.62	.95	.27	.59	.92	9.5	8.9	8.4	7.8	7.3
31 45	26.320	52.64	78.96	105.28	131.60	157.92	184.24	210.56	236.87	1579.2	3158.3	4737.5	6316.7	7895.9
46	.315	.63	.95	.26	.58	.89	.20	.52	.83	8.9	7.8	6.7	5.6	4.5
47	.310	.62	.93	.24	.55	.86	.17	.48	.79	8.6	7.2	5.8	4.4	3.0
48	.305	.61	.92	.22	.53	.84	.14	.44	.75	8.4	6.6	5.0	3.3	1.6
49	.301	.60	.90	.20	.50	.80	.11	.41	.70	8.0	6.1	4.1	2.2	90.2
31 50	26.296	52.59	78.89	105.18	131.48	157.78	184.07	210.37	236.66	1577.8	3155.5	4733.3	6311.0	7888.8
51	.291	.58	.87	.16	.46	.75	.04	.33	.62	7.5	4.9	2.4	09.9	7.4
52	.287	.57	.86	.15	.43	.72	4.00	.29	.58	7.2	4.4	1.6	8.8	6.0
53	.282	.56	.85	.13	.41	.69	3.97	.25	.53	6.9	3.8	30.7	7.6	4.5
54	.277	.55	.83	.11	.38	.66	.94	.22	.49	6.6	3.3	29.9	6.5	83.1
31 55	26.272	52.55	78.82	105.09	131.36	157.63	183.90	210.18	236.45	1576.3	3152.7	4729.0	6305.4	7881.7
56	.268	.54	.80	.07	.34	.61	.87	.14	.41	6.1	2.1	8.2	4.2	80.3
57	.263	.53	.79	.05	.31	.58	.84	.10	.37	5.8	1.5	7.3	3.1	78.9
58	.258	.52	.77	.03	.29	.55	.81	.07	.32	5.5	1.0	6.5	2.0	7.4
59	.253	.51	.76	5.01	.26	.52	.77	10.03	.28	5.2	50.4	5.6	300.8	6.0
31 60	26.249	52.50	78.75	104.99	131.24	157.49	183.74	209.99	236.24	1574.9	3149.8	4724.8	6299.7	7874.6

Lat.	Latitude 31° to 32°—Meridional arcs						Latitude 31°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 31°30'		Value of 1'	Continuous sums of minutes from latitude 31°00'		Longitude	X	Y
		Meters	"		Meters	'			
31 00	30.796			1847.76			0 1	1 591.8	0.1
1	6	1	30.80	.77	1	1 847.8	2	3 183.5	0.5
2	6	2	61.60	.77	2	3 695.5	3	4 775.3	1.1
3	6	3	92.40	.78	3	5 543.3	4	6 367.1	1.9
4	6	4	123.19	.78	4	7 391.1			
31 05	30.796	5	153.99	1847.79	5	9 238.9	0 5	7 958.9	3.0
6	7	6	184.79	.79	6	11 086.7	6	9 550.6	4.3
7	7	7	215.59	.80	7	12 934.4	7	11 142.4	5.8
8	7	8	246.39	.80	8	14 782.2	8	12 734.2	7.6
9	7	9	277.19	.80	9	16 630.0	9	14 325.9	9.7
31 10	30.797	10	307.98	1847.81	10	18 477.9	0 10	15 917.7	11.9
11	7	1	338.78	.81	1	20 325.7	15	23 876.5	26.8
12	7	2	369.58	.82	2	22 173.5	20	31 835.4	47.7
13	7	3	400.38	.82	3	24 021.3	25	39 794.2	74.5
14	7	4	431.18	.83	4	25 869.1	30	47 753.0	107.3
31 15	30.797	15	461.98	1847.83	15	27 717.0	0 35	55 711.7	146.1
16	7	6	492.78	.84	6	29 564.8	40	63 670.4	190.8
17	7	7	523.57	.84	7	31 412.6	45	71 629.2	241.5
18	7	8	554.37	.85	8	33 260.5	50	79 587.8	298.1
19	8	9	585.17	.85	9	35 108.3	55	87 546.4	360.7
31 20	30.798	20	615.97	1847.86	20	36 956.2	1 00	95 505.0	429.3
21	8	1	646.77	.86	1	38 804.0	05	103 463.5	503.8
22	8	2	677.57	.87	2	40 651.9	10	111 421.9	584.3
23	8	3	708.36	.87	3	42 499.8	15	119 380.3	670.7
24	8	4	739.16	.88	4	44 347.7	20	127 338.6	763.1
31 25	30.798	25	769.96	1847.88	25	46 195.5	1 25	135 296.9	861.5
26	8	6	800.76	.89	6	48 043.4	30	143 255.1	965.8
27	8	7	831.56	.89	7	49 891.3	35	151 213.1	1 076.1
28	8	8	862.36	.90	8	51 739.2	40	159 171.1	1 192.4
29	8	9	893.15	.90	9	53 587.1	45	167 129.0	1 314.6
31 30	30.798	30	923.95	1847.91	30	55 435.0	1 50	175 086.8	1 442.8
31	9	1	954.75	.91	1	57 282.9	55	183 044.6	1 576.9
32	9	2	985.55	.92	2	59 130.8	2 00	191 002	1 717
33	9	3	1 016.35	.92	3	60 978.8	3 00	286 484	3 863
34	9	4	1 047.15	.93	4	62 826.7	4 00	381 943	6 867
31 35	30.799	35	1 077.95	1847.93	35	64 674.6	5 00	477 371	10 729
36	9	6	1 108.74	.94	6	66 522.5	6 00	572 760	15 450
37	9	7	1 139.54	.94	7	68 370.5	7 00	668 103	21 027
38	9	8	1 170.34	.95	8	70 218.4	8 00	763 392	27 461
39	9	9	1 201.14	.95	9	72 066.4	9 00	858 619	34 751
31 40	30.799	40	1 231.94	1847.96	40	73 914.3	10 00	953 777	42 897
41	9	1	1 262.74	.96	1	75 762.3	11 00	1 048 858	51 898
42	799	2	1 293.53	.97	2	77 610.2	12 00	1 143 854	61 753
43	800	3	1 324.33	.97	3	79 458.2	13 00	1 238 758	72 462
44	0	4	1 355.13	.98	4	81 306.2	14 00	1 333 561	84 024
31 45	30.800	45	1 385.93	1847.98	45	83 154.2	15 00	1 428 257	96 437
46	0	6	1 416.73	.98	6	85 002.1	16 00	1 522 837	109 701
47	0	7	1 447.53	.99	7	86 850.1	17 00	1 617 294	123 815
48	0	8	1 478.33	7.99	8	88 698.1	18 00	1 711 621	138 777
49	0	9	1 509.12	1848.00	9	90 546.1	19 00	1 805 810	154 586
31 50	30.800	50	1 539.92	1848.00	50	92 394.1	20 00	1 899 852	171 241
51	0	1	1 570.72	.01	1	94 242.1	21 00	1 993 740	188 741
52	0	2	1 601.52	.01	2	96 090.1	22 00	2 087 468	207 085
53	0	3	1 632.32	.02	3	97 938.2	23 00	2 181 027	226 270
54	0	4	1 663.12	.02	4	99 786.2	24 00	2 274 411	246 295
31 55	30.800	55	1 693.91	1848.03	55	101 634.2	25 00	2 367 610	267 159
56	1	6	1 724.71	.03	6	103 482.2	26 00	2 460 618	288 860
57	1	7	1 755.51	.04	7	105 330.3	27 00	2 553 427	311 396
58	1	8	1 786.31	.04	8	107 178.3	28 00	2 646 029	334 765
59	1	9	1 817.11	.05	9	109 026.4	29 00	2 738 418	358 966
31 60	30.801	60	1 847.91	1848.05	60	110 874.4	30 00	2 830 585	383 997

Latitude 32° to 33°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
32 00	26.249	52.50	78.75	104.99	131.24	157.49	183.74	209.99	236.24	1574.9	3149.8	4724.8	6299.7	7874.6
1	.244	.49	.73	.98	.22	.46	.71	.95	.20	4.6	9.3	3.9	8.5	3.2
2	.239	.48	.72	.96	.19	.43	.67	.91	.15	4.3	8.7	3.1	7.4	1.7
3	.234	.47	.70	.94	.17	.41	.64	.87	.11	4.1	8.1	2.2	6.2	70.3
4	.230	.46	.69	.92	.15	.38	.61	.84	.07	3.8	7.6	1.4	5.1	68.9
32 05	26.225	52.45	78.67	104.90	131.12	157.35	183.57	209.80	236.02	1573.5	3147.0	4720.5	6294.0	7867.4
6	.220	.44	.66	.88	.10	.32	.54	.76	5.98	3.2	6.4	19.6	2.8	6.0
7	.215	.43	.65	.86	.08	.29	.51	.72	.94	2.9	5.8	8.8	1.7	4.6
8	.211	.42	.63	.84	.06	.26	.48	.68	.90	2.6	5.3	7.9	90.5	3.2
9	.206	.41	.62	.82	.03	.23	.44	.65	.85	2.3	4.7	7.1	89.4	1.7
32 10	26.201	52.40	78.60	104.80	131.01	157.21	183.41	209.61	235.81	1572.1	3144.1	4716.2	6288.3	7860.3
11	.196	.39	.59	.79	0.99	.18	.38	.57	.77	1.8	3.6	5.3	7.1	58.9
12	.191	.38	.57	.77	.96	.15	.34	.53	.72	1.5	3.0	4.5	6.0	7.4
13	.187	.37	.56	.75	.94	.12	.31	.49	.68	1.2	2.4	3.6	4.8	6.0
14	.182	.36	.55	.73	.91	.09	.27	.46	.64	0.9	1.9	2.8	3.7	4.6
32 15	26.177	52.35	78.53	104.71	130.89	157.06	183.24	209.42	235.59	1570.6	3141.3	4711.9	6282.5	7853.1
16	.172	.34	.52	.69	.87	.03	.21	.38	.55	0.3	0.7	1.0	1.4	1.7
17	.168	.34	.50	.67	.84	7.01	.17	.34	.51	70.1	40.1	10.2	80.2	50.3
18	.163	.33	.49	.65	.82	6.98	.14	.30	.47	69.8	39.5	09.3	79.1	48.8
19	.158	.32	.47	.63	.79	.95	.10	.26	.42	9.5	9.0	8.5	7.9	7.4
32 20	26.153	52.31	78.46	104.61	130.77	156.92	183.07	209.23	235.38	1569.2	3138.4	4707.6	6276.8	7846.0
21	.148	.30	.45	.59	.75	.89	.04	.19	.34	8.9	7.8	6.7	5.6	4.5
22	.144	.29	.43	.57	.72	.86	3.00	.15	.29	8.6	7.2	5.9	4.5	3.1
23	.139	.28	.42	.56	.70	.83	2.97	.11	.25	8.3	6.7	5.0	3.3	1.6
24	.134	.27	.40	.54	.67	.80	.94	.07	.21	8.0	6.1	4.1	2.2	40.2
32 25	26.129	52.26	78.39	104.52	130.65	156.78	182.90	209.03	235.16	1567.8	3135.5	4703.3	6271.0	7838.8
26	.124	.25	.37	.50	.63	.75	.87	9.00	.12	7.5	4.9	2.4	69.9	7.3
27	.120	.24	.36	.48	.60	.72	.84	8.96	.08	7.2	4.3	1.5	68.7	5.9
28	.115	.23	.34	.46	.58	.69	.81	.92	5.04	6.9	3.8	700.7	7.6	4.4
29	.110	.22	.33	.44	.55	.66	.77	.88	4.99	6.6	3.2	699.8	6.4	3.0
32 30	26.105	52.21	78.32	104.42	130.53	156.63	182.74	208.84	234.95	1566.3	3132.6	4698.9	6265.3	7831.6
31	.100	.20	.30	.40	.51	.60	.70	.80	.90	6.0	2.0	8.0	4.1	30.1
32	.096	.19	.29	.38	.48	.57	.67	.76	.86	5.7	1.5	7.2	2.9	28.7
33	.091	.18	.27	.36	.45	.54	.64	.73	.82	5.4	0.9	6.3	1.8	7.2
34	.086	.17	.26	.34	.43	.52	.60	.69	.77	5.2	30.3	5.5	60.6	5.8
32 35	26.081	52.16	78.24	104.32	130.41	156.49	182.57	208.65	234.73	1564.9	3129.7	4694.6	6259.5	7824.3
36	.076	.15	.23	.30	.39	.46	.54	.61	.69	4.6	9.1	3.7	8.3	2.9
37	.071	.14	.21	.29	.36	.43	.50	.57	.64	4.3	8.6	2.9	7.1	1.4
38	.067	.13	.20	.27	.34	.40	.47	.53	.60	4.0	8.0	2.0	6.0	20.0
39	.062	.12	.18	.25	.31	.37	.43	.49	.55	3.7	7.4	1.1	4.8	18.5
32 40	26.057	52.11	78.17	104.23	130.29	156.34	182.40	208.46	234.51	1563.4	3126.8	4690.3	6253.7	7817.1
41	.052	.10	.16	.21	.26	.31	.37	.42	.47	3.1	6.2	89.4	2.5	5.6
42	.047	.09	.14	.19	.24	.28	.33	.38	.42	2.8	5.7	8.5	1.3	4.2
43	.042	.08	.13	.17	.22	.25	.30	.34	.38	2.5	5.1	7.7	50.2	2.7
44	.038	.08	.11	.15	.19	.23	.26	.30	.34	2.3	4.5	6.8	49.0	11.3
32 45	26.033	52.07	78.10	104.13	130.17	156.20	182.23	208.26	234.29	1562.0	3123.9	4685.9	6247.9	7809.8
46	.028	.06	.08	.11	.14	.17	.20	.22	.25	1.7	3.3	5.0	6.7	8.4
47	.023	.05	.07	.09	.12	.14	.16	.18	.21	1.4	2.7	4.1	5.5	6.9
48	.018	.04	.05	.07	.09	.11	.13	.15	.17	1.1	2.2	3.3	4.4	5.4
49	.013	.03	.04	.05	.07	.08	.09	.11	.12	0.8	1.6	2.4	3.2	4.0
32 50	26.008	52.02	78.03	104.03	130.04	156.05	182.06	208.07	234.08	1560.5	3121.0	4681.5	6242.0	7802.5
51	.004	.01	.01	4.01	30.02	6.02	2.03	8.03	4.03	60.2	20.4	80.6	40.9	801.1
52	5.999	2.00	8.00	3.99	29.99	5.99	1.99	7.99	3.99	59.9	19.8	79.7	39.7	799.6
53	.994	1.99	7.98	.98	.97	.96	.95	.94	.93	9.6	9.3	8.9	8.5	8.2
54	.989	.98	.97	.96	.94	.93	.92	.91	.90	9.3	8.7	8.0	7.4	6.7
32 55	25.984	51.97	77.95	103.94	129.92	155.90	181.89	207.87	233.86	1559.0	3118.1	4677.1	6236.2	7795.2
56	.979	.96	.94	.92	.90	.88	.86	.83	.81	8.8	7.5	6.2	5.0	3.8
57	.974	.95	.92	.90	.87	.85	.82	.79	.77	8.5	6.9	5.4	3.8	2.3
58	.970	.94	.91	.88	.85	.82	.79	.76	.73	8.2	6.4	4.5	2.7	90.9
59	.965	.93	.89	.86	.82	.79	.75	.72	.68	7.9	5.8	3.7	1.5	89.4
32 60	25.960	51.92	77.88	103.84	129.80	155.76	181.72	207.68	233.64	1557.6	3115.2	4672.8	6230.3	7787.9

Lat.	Latitude 32° to 33°—Meridional arcs					Latitude 32°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 32°30'		Value of 1'	Continuous sums of minutes from latitude 32°00'		Longitude	X	Y
	<i>Meters</i>	"	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
32 00	30. 801			1848. 05			0 1	1 574. 9	0. 1
1	1	1	30. 80	. 06	1	1 848. 1	0 2	3 149. 8	0. 5
2	1	2	61. 61	. 06	2	3 696. 1	0 3	4 724. 8	1. 1
3	1	3	92. 41	. 07	3	5 544. 2	0 4	6 299. 7	1. 9
4	1	4	123. 21	. 07	4	7 392. 3			
32 05	30. 801	5	154. 02	1848. 08	5	9 240. 3	0 5	7 874. 6	3. 0
6	1	6	184. 82	. 08	6	11 088. 4	0 6	9 449. 5	4. 4
7	1	7	215. 62	. 09	7	12 936. 5	0 7	11 024. 4	6. 0
8	2	8	246. 43	. 09	8	14 784. 6	0 8	12 599. 4	7. 8
9	2	9	277. 23	. 10	9	16 632. 7	0 9	14 174. 3	9. 8
32 10	30. 802	10	308. 03	1848. 10	10	18 480. 8	0 10	15 749. 2	12. 1
11	2	1	338. 84	. 11	1	20 328. 9	0 15	23 623. 8	27. 3
12	2	2	369. 64	. 11	2	22 177. 0	0 20	31 498. 3	48. 6
13	2	3	400. 44	. 12	3	24 025. 1	0 25	39 372. 9	75. 9
14	2	4	431. 25	. 12	4	25 873. 2	0 30	47 247. 4	109. 3
32 15	30. 802	15	462. 05	1848. 13	15	27 721. 4	0 35	55 121. 9	148. 7
16	2	6	492. 85	. 13	6	29 569. 5	0 40	62 996. 4	194. 2
17	2	7	523. 66	. 14	7	31 417. 6	0 45	70 870. 8	245. 8
18	2	8	554. 46	. 14	8	33 265. 8	0 50	78 745. 2	303. 5
19	2	9	585. 26	. 15	9	35 113. 9	0 55	86 619. 5	367. 2
32 20	30. 803	20	616. 07	1848. 15	20	36 962. 1	1 00	94 493. 8	437. 0
21	3	1	646. 87	. 16	1	38 810. 2	1 05	102 368. 0	512. 8
22	3	2	677. 67	. 16	2	40 658. 4	1 10	110 242. 2	594. 8
23	3	3	708. 48	. 17	3	42 506. 6	1 15	118 116. 3	682. 8
24	3	4	739. 28	. 17	4	44 354. 7	1 20	125 990. 3	776. 9
32 25	30. 803	25	770. 08	1848. 18	25	46 202. 9	1 25	133 864. 3	877. 0
26	3	6	800. 89	. 18	6	48 051. 1	1 30	141 738. 2	983. 2
27	3	7	831. 69	. 19	7	49 899. 3	1 35	149 612. 0	1 095. 5
28	3	8	862. 49	. 19	8	51 747. 5	1 40	157 485. 7	1 213. 8
29	3	9	893. 30	. 20	9	53 595. 6	1 45	165 359. 3	1 338. 2
32 30	30. 803	30	924. 10	1848. 20	30	55 443. 8	1 50	173 232. 8	1 468. 7
31	3	1	954. 90	. 21	1	57 292. 0	1 55	181 106. 2	1 605. 3
32	4	2	985. 71	. 21	2	59 140. 3	2 00	188 980	1 748
33	4	3	1 016. 51	. 22	3	60 988. 5	2 05	196 854	1 891
34	4	4	1 047. 31	. 22	4	62 836. 7	2 10	204 728	2 034
32 35	30. 804	35	1 078. 12	1848. 23	35	64 684. 9	2 15	212 602	2 177
36	4	6	1 108. 92	. 23	6	66 533. 1	2 20	220 476	2 320
37	4	7	1 139. 72	. 24	7	68 381. 4	2 25	228 350	2 463
38	4	8	1 170. 53	. 24	8	70 229. 6	2 30	236 224	2 606
39	4	9	1 201. 33	. 25	9	72 077. 8	2 35	244 098	2 749
32 40	30. 804	40	1 232. 13	1848. 25	40	73 926. 1	2 40	251 972	2 892
41	4	1	1 262. 94	. 26	1	75 774. 4	2 45	259 846	3 035
42	4	2	1 293. 74	. 26	2	77 622. 6	2 50	267 720	3 178
43	4	3	1 324. 54	. 27	3	79 470. 9	2 55	275 594	3 321
44	5	4	1 355. 35	. 27	4	81 319. 1	3 00	283 468	3 464
32 45	30. 805	45	1 386. 15	1848. 28	45	83 167. 4	3 05	291 342	3 607
46	5	6	1 416. 95	. 28	6	85 015. 7	3 10	299 216	3 750
47	5	7	1 447. 76	. 29	7	86 864. 0	3 15	307 090	3 893
48	5	8	1 478. 56	. 29	8	88 712. 3	3 20	314 964	4 036
49	5	9	1 509. 36	. 30	9	90 560. 5	3 25	322 838	4 179
32 50	30. 805	50	1 540. 17	1848. 30	50	92 408. 8	3 30	330 712	4 322
51	5	1	1 570. 97	. 31	1	94 257. 1	3 35	338 586	4 465
52	5	2	1 601. 77	. 31	2	96 105. 5	3 40	346 460	4 608
53	5	3	1 632. 58	. 32	3	97 953. 8	3 45	354 334	4 751
54	5	4	1 663. 38	. 32	4	99 802. 1	3 50	362 208	4 894
32 55	30. 805	55	1 694. 18	1848. 33	55	101 650. 4	3 55	370 082	5 037
56	6	6	1 724. 99	. 33	6	103 498. 7	4 00	377 956	5 180
57	6	7	1 755. 79	. 34	7	105 347. 1	4 05	385 830	5 323
58	6	8	1 786. 59	. 34	8	107 195. 4	4 10	393 704	5 466
59	6	9	1 817. 40	. 35	9	109 043. 8	4 15	401 578	5 609
32 60	30. 806	60	1 848. 20	1848. 35	60	110 892. 1	4 20	409 452	5 752

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 33° to 34°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
33 00	25.960	51.92	77.88	103.84	129.80	155.76	181.72	207.68	233.64	1557.6	3115.2	4672.8	6230.3	7787.9
1	.955	.91	.87	.82	.78	.73	.69	.64	.60	7.3	4.6	1.9	29.2	6.5
2	.950	.90	.85	.80	.75	.70	.65	.60	.55	7.0	4.0	1.0	8.0	5.0
3	.945	.89	.84	.78	.73	.67	.62	.56	.51	6.7	3.4	70.1	6.8	3.5
4	.940	.88	.82	.76	.70	.64	.58	.52	.46	6.4	2.8	69.3	5.6	2.1
33 05	25.935	51.87	77.81	103.74	129.68	155.61	181.55	207.48	233.42	1556.1	3112.2	4668.4	6224.5	7780.6
6	.930	.86	.79	.72	.65	.58	.51	.44	.38	5.8	1.6	7.5	3.3	79.1
7	.926	.85	.78	.70	.63	.55	.48	.40	.33	5.5	1.1	6.6	2.1	7.7
8	.921	.84	.76	.68	.60	.53	.45	.37	.29	5.3	10.5	5.7	21.0	6.2
9	.916	.83	.75	.66	.58	.50	.41	.33	.24	5.0	09.9	4.8	19.8	4.7
33 10	25.911	51.82	77.73	103.64	129.55	155.47	181.38	207.29	233.20	1554.7	3109.3	4664.0	6218.6	7773.3
11	.906	.81	.72	.62	.53	.44	.35	.25	.16	4.4	8.7	3.1	7.4	1.8
12	.901	.80	.70	.60	.50	.41	.31	.21	.11	4.1	8.1	2.2	6.2	70.3
13	.896	.79	.69	.58	.48	.38	.28	.17	.07	3.8	7.5	1.3	5.1	68.8
14	.891	.78	.67	.57	.46	.35	.24	.13	3.02	3.5	7.0	60.4	3.9	7.4
33 15	25.886	51.77	77.66	103.55	129.43	155.32	181.21	207.09	232.98	1553.2	3106.4	4659.5	6212.7	7765.9
16	.881	.76	.64	.53	.41	.29	.17	.05	.93	2.9	5.8	8.6	1.5	4.4
17	.876	.75	.63	.51	.38	.26	.14	7.01	.89	2.6	5.2	7.7	10.4	2.9
18	.872	.74	.62	.49	.36	.23	.10	6.97	.85	2.3	4.6	6.9	09.2	1.5
19	.867	.73	.60	.47	.33	.20	.07	.93	.80	2.0	4.0	6.0	8.0	60.0
33 20	25.862	51.72	77.59	103.45	129.31	155.17	181.03	206.89	232.76	1551.7	3103.4	4655.1	6206.8	7758.5
21	.857	.71	.57	.43	.29	.14	1.00	.85	.71	1.4	2.8	4.2	5.6	7.0
22	.852	.70	.56	.41	.26	.11	0.96	.81	.67	1.1	2.2	3.3	4.4	5.6
23	.847	.69	.54	.39	.24	.08	.93	.78	.63	0.8	1.6	2.5	3.3	4.1
24	.842	.68	.53	.37	.21	.05	.89	.74	.58	0.5	1.0	1.6	2.1	2.6
33 25	25.837	51.67	77.51	103.35	129.19	155.02	180.86	206.70	232.54	1550.2	3100.4	4650.7	6200.9	7751.1
26	.832	.66	.50	.33	.16	4.99	.82	.66	.49	49.9	099.8	49.8	199.7	49.6
27	.827	.65	.48	.31	.14	.96	.79	.62	.45	9.6	9.3	8.9	8.5	8.2
28	.822	.64	.47	.29	.11	.93	.76	.58	.40	9.3	8.7	8.0	7.3	6.7
29	.817	.63	.45	.27	.09	.90	.72	.54	.36	9.0	8.1	7.1	6.2	5.2
33 30	25.812	51.62	77.44	103.25	129.06	154.87	180.69	206.50	232.31	1548.7	3097.5	4646.2	6195.0	7743.7
31	.807	.61	.42	.23	.04	.84	.65	.46	.27	8.4	6.9	5.3	3.8	2.2
32	.802	.60	.41	.21	9.01	.81	.62	.42	.22	8.1	6.3	4.4	2.6	40.7
33	.797	.59	.39	.19	8.99	.78	.58	.38	.18	7.8	5.7	3.5	1.4	39.2
34	.793	.59	.38	.17	.96	.76	.55	.34	.13	7.6	5.1	2.7	90.2	7.8
33 35	25.788	51.58	77.36	103.15	128.94	154.73	180.52	206.30	232.09	1547.3	3094.5	4641.8	6189.0	7736.3
36	.783	.57	.35	.13	.91	.70	.48	.26	.05	7.0	3.9	0.9	7.8	4.8
37	.778	.56	.33	.11	.89	.67	.45	.22	2.00	6.7	3.3	40.0	6.6	3.3
38	.773	.55	.32	.09	.86	.64	.41	.18	1.96	6.4	2.7	39.1	5.5	1.8
39	.768	.54	.30	.07	.84	.61	.38	.14	.91	6.1	2.1	8.2	4.3	30.3
33 40	25.763	51.53	77.29	103.05	128.81	154.58	180.34	206.10	231.87	1545.8	3091.5	4637.3	6183.1	7728.8
41	.758	.52	.27	.03	.79	.55	.31	.06	.82	5.5	0.9	6.4	1.9	7.3
42	.753	.51	.26	3.01	.76	.52	.27	6.02	.78	5.2	90.3	5.5	80.7	5.9
43	.748	.50	.24	2.99	.74	.49	.24	5.98	.73	4.9	89.8	4.6	79.5	4.4
44	.743	.49	.23	.97	.71	.46	.20	.94	.69	4.6	9.2	3.7	8.3	2.9
33 45	25.738	51.48	77.21	102.95	128.69	154.43	180.17	205.90	231.64	1544.3	3088.6	4632.8	6177.1	7721.4
46	.733	.47	.20	.93	.67	.40	.13	.86	.60	4.0	8.0	1.9	5.9	19.9
47	.728	.46	.18	.91	.64	.37	.10	.82	.55	3.7	7.4	1.0	4.7	8.4
48	.723	.45	.17	.89	.62	.34	.06	.78	.51	3.4	6.8	30.1	3.5	6.9
49	.718	.44	.15	.87	.59	.31	80.03	.74	.46	3.1	6.2	29.2	2.3	5.4
33 50	25.713	51.43	77.14	102.85	128.57	154.28	179.99	205.70	231.42	1542.8	3085.6	4628.3	6171.1	7713.9
51	.708	.42	.12	.83	.55	.25	.96	.66	.37	2.5	5.0	7.4	69.9	2.4
52	.703	.41	.11	.81	.52	.22	.92	.62	.33	2.2	4.4	6.5	8.7	10.9
53	.698	.40	.09	.79	.49	.19	.89	.58	.28	1.9	3.8	5.6	7.5	09.4
54	.693	.39	.08	.77	.47	.16	.85	.54	.24	1.6	3.2	4.7	6.3	7.9
33 55	25.688	51.38	77.06	102.75	128.44	154.13	179.82	205.50	231.19	1541.3	3082.6	4623.8	6165.1	7706.4
56	.683	.37	.05	.73	.42	.10	.78	.46	.15	1.0	2.0	2.9	3.9	4.9
57	.678	.36	.03	.71	.39	.07	.75	.42	.10	0.7	1.4	2.0	2.7	3.4
58	.673	.35	.02	.69	.37	.04	.71	.38	.06	0.4	0.8	1.1	1.5	1.9
59	.668	.34	7.00	.67	.34	4.01	.68	.34	1.01	40.1	80.2	20.2	60.3	700.4
33 60	25.663	51.33	76.99	102.65	128.32	153.98	179.64	205.30	230.97	1539.8	3079.6	4619.3	6159.1	7698.9

Lat.	Latitude 33° to 34°—Meridional arcs						Latitude 33°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 33°30'		Value of 1'	Continuous sums of minutes from latitude 33°00'		Longitude	X	Y
		Meters	"		Meters	Meters			
33 00	30.806	6	30.81	1848.35	1	1 848.4	0 1	1 557.6	0.1
1	6	1	61.62	.36	2	3 696.7	2	3 115.2	0.5
2	6	2	92.43	.37	3	5 545.1	3	4 672.8	1.1
3	6	3	123.23	.37	4	7 393.4	4	6 230.3	2.0
4	6	4							
33 05	30.806	5	154.04	1848.38	5	9 241.8	0 5	7 787.9	3.1
6	6	6	184.85	.38	6	11 090.2	6	9 345.5	4.4
7	6	7	215.66	.39	7	12 938.6	7	10 903.1	6.0
8	7	8	246.47	.39	8	14 787.0	8	12 460.7	7.9
9	7	9	277.28	.40	9	16 635.4	9	14 018.3	10.0
33 10	30.807	10	308.08	1848.40	10	18 483.8	0 10	15 575.9	12.3
11	7	1	338.89	.41	1	20 332.2	15	23 363.8	27.8
12	7	2	369.70	.41	2	22 180.6	20	31 151.7	49.4
13	7	3	400.51	.42	3	24 029.0	25	38 939.6	77.1
14	7	4	431.32	.42	4	25 877.4	30	46 727.4	111.0
33 15	30.807	15	462.13	1848.43	15	27 725.8	0 35	54 515.3	151.1
16	7	6	492.93	.43	6	29 574.2	40	62 303.1	197.4
17	7	7	523.74	.44	7	31 422.7	45	70 090.8	249.8
18	7	8	554.55	.44	8	33 271.1	50	77 878.6	308.4
19	7	9	585.36	.45	9	35 119.6	55	85 666.2	373.2
33 20	30.808	20	616.17	1848.45	20	36 968.0	1 00	93 453.8	444.2
21	8	1	646.98	.46	1	38 816.5	05	101 241.4	521.3
22	8	2	677.78	.46	2	40 664.9	10	109 028.9	604.6
23	8	3	708.59	.47	3	42 513.4	15	116 816.3	694.0
24	8	4	739.40	.47	4	44 361.9	20	124 603.7	789.6
33 25	30.808	25	770.21	1848.48	25	46 210.3	1 25	132 390.9	891.4
26	8	6	801.02	.48	6	48 058.8	30	140 178.1	999.4
27	8	7	831.83	.49	7	49 907.3	35	147 965.2	1 113.5
28	8	8	862.63	.49	8	51 755.8	40	155 752.2	1 233.8
29	8	9	893.44	.50	9	53 604.3	45	163 539.1	1 360.3
33 30	30.808	30	924.25	1848.50	30	55 452.8	1 50	171 326.0	1 492.9
31	8	1	955.06	.51	1	57 301.3	55	179 112.7	1 631.7
32	9	2	985.87	.51	2	59 149.8	2 00	186 899	1 777
33	9	3	1 016.68	.52	3	60 998.3	3 00	280 328	3 997
34	9	4	1 047.48	.52	4	62 846.8	4 00	373 731	7 106
33 35	30.809	35	1 078.29	1848.53	35	64 695.3	5 00	467 100	11 102
36	9	6	1 109.10	.53	6	66 543.9	6 00	560 428	15 986
37	9	7	1 139.91	.54	7	68 392.4	7 00	653 704	21 757
38	9	8	1 170.72	.54	8	70 241.0	8 00	746 922	28 414
39	9	9	1 201.53	.55	9	72 089.5	9 00	840 072	35 957
33 40	30.809	40	1 232.33	1848.55	40	73 938.0	10 00	933 146	44 385
41	9	1	1 263.14	.56	1	75 786.6	11 00	1 026 136	53 697
42	9	2	1 293.95	.56	2	77 635.2	12 00	1 119 033	63 893
43	09	3	1 324.76	.57	3	79 483.7	13 00	1 211 829	74 971
44	10	4	1 355.57	.57	4	81 332.3	14 00	1 304 515	86 931
33 45	30.810	45	1 386.38	1848.58	45	83 180.9	15 00	1 397 083	99 771
46	0	6	1 417.18	.58	6	85 029.4	16 00	1 489 526	113 491
47	0	7	1 447.99	.59	7	86 878.0	17 00	1 581 834	128 089
48	0	8	1 478.80	.59	8	88 726.6	18 00	1 673 998	143 564
49	0	9	1 509.61	.60	9	90 575.2	19 00	1 766 011	159 914
33 50	30.810	50	1 540.42	1848.60	50	92 423.8	20 00	1 857 866	177 138
51	0	1	1 571.23	.61	1	94 272.4	21 00	1 949 553	195 234
52	0	2	1 602.03	.61	2	96 121.0	22 00	2 041 062	214 201
53	0	3	1 632.84	.62	3	97 969.6	23 00	2 132 387	234 037
54	0	4	1 663.65	.62	4	99 818.2	24 00	2 223 521	254 740
33 55	30.810	55	1 694.46	1848.63	55	101 666.9	25 00	2 314 453	276 309
56	1	6	1 725.27	.63	6	103 515.5	26 00	2 405 175	298 741
57	1	7	1 756.08	.64	7	105 364.1	27 00	2 495 680	322 034
58	1	8	1 786.88	.64	8	107 212.8	28 00	2 585 961	346 187
59	1	9	1 817.69	.65	9	109 061.4	29 00	2 676 007	371 197
33 60	30.811	60	1 848.50	1848.65	60	110 910.1	30 00	2 765 812	397 061

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 34° to 35°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
34 00	25.663	51.33	76.99	102.65	128.32	153.98	179.64	205.30	230.97	1539.8	3079.6	4619.3	6159.1	7698.9
1	.658	.32	.97	.63	.29	.95	.61	.26	.92	9.5	9.0	8.4	7.9	7.4
2	.653	.31	.96	.61	.27	.92	.57	.22	.88	9.2	8.4	7.5	6.7	5.9
3	.648	.30	.94	.59	.24	.89	.54	.18	.83	8.9	7.7	6.6	5.5	4.4
4	.643	.29	.93	.57	.22	.86	.50	.14	.79	8.6	7.1	5.7	4.3	2.9
34 05	25.638	51.28	76.91	102.55	128.19	153.83	179.47	205.10	230.74	1538.3	3076.5	4614.8	6153.1	7691.4
6	.633	.27	.90	.53	.16	.80	.43	.06	.70	8.0	5.9	3.9	1.9	89.9
7	.628	.26	.88	.51	.14	.77	.40	5.02	.65	7.7	5.3	3.0	50.7	8.4
8	.623	.25	.87	.49	.11	.74	.36	4.98	.60	7.4	4.7	2.1	49.5	6.8
9	.618	.24	.85	.47	.09	.71	.33	.94	.56	7.1	4.1	1.2	8.3	5.3
34 10	25.613	51.23	76.84	102.45	128.06	153.68	179.29	204.90	230.51	1536.8	3073.5	4610.3	6147.1	7683.8
11	.608	.22	.82	.43	.04	.65	.26	.86	.47	6.5	2.9	09.4	5.9	2.3
12	.603	.21	.81	.41	8.01	.62	.22	.82	.42	6.2	2.3	8.5	4.6	80.8
13	.598	.20	.79	.39	7.99	.59	.19	.78	.38	5.9	1.7	7.6	3.4	79.3
14	.593	.19	.78	.37	.96	.56	.15	.74	.33	5.6	1.1	6.7	2.2	7.8
34 15	25.588	51.18	76.76	102.35	127.94	153.53	179.12	204.70	230.29	1535.3	3070.5	4605.8	6141.0	7676.3
16	.583	.16	.75	.33	.91	.50	.08	.66	.24	5.0	69.9	4.9	39.8	4.8
17	.577	.15	.73	.31	.89	.46	.04	.62	.20	4.6	9.3	3.9	8.6	3.2
18	.572	.14	.72	.29	.86	.43	9.01	.58	.15	4.3	8.7	3.0	7.4	1.7
19	.567	.13	.70	.27	.84	.40	8.97	.54	.11	4.0	8.1	2.1	6.2	70.2
34 20	25.562	51.12	76.69	102.25	127.81	153.37	178.94	204.50	230.06	1533.7	3067.5	4601.2	6135.0	7668.7
21	.557	.11	.67	.23	.79	.34	.90	.46	30.02	3.4	6.9	600.3	3.7	7.2
22	.552	.10	.66	.21	.76	.31	.87	.42	29.97	3.1	6.3	599.4	2.5	5.7
23	.547	.09	.64	.19	.74	.28	.83	.38	.92	2.8	5.6	8.5	1.3	4.1
24	.542	.08	.63	.17	.71	.25	.80	.34	.88	2.5	5.0	7.6	30.1	2.6
34 25	25.537	51.07	76.61	102.15	127.69	153.22	178.76	204.30	229.83	1532.2	3064.4	4596.7	6128.9	7661.1
26	.532	.06	.60	.13	.66	.19	.72	.26	.79	1.9	3.8	5.8	7.7	59.6
27	.527	.05	.58	.11	.64	.16	.69	.21	.74	1.6	3.2	4.9	6.4	8.1
28	.522	.04	.57	.09	.61	.13	.65	.17	.70	1.3	2.6	3.9	5.2	6.5
29	.517	.03	.55	.07	.59	.10	.62	.13	.65	1.0	2.0	3.0	4.0	5.0
34 30	25.512	51.02	76.54	102.05	127.56	153.07	178.58	204.09	229.61	1530.7	3061.4	4592.1	6122.8	7653.5
31	.507	.01	.52	.03	.53	.04	.55	.05	.56	0.4	0.8	1.2	1.6	2.0
32	.501	1.00	.50	2.01	.51	3.01	.51	4.01	.51	30.1	60.2	90.3	20.4	50.4
33	.496	0.99	.49	1.99	.48	2.98	.48	3.97	.47	29.8	59.6	89.3	19.1	48.9
34	.491	.98	.47	.97	.46	.95	.44	.93	.42	9.5	9.0	8.4	7.9	7.4
34 35	25.486	50.97	76.46	101.94	127.43	152.92	178.41	203.89	229.38	1529.2	3058.3	4587.5	6116.7	7645.9
36	.481	.96	.44	.92	.40	.89	.37	.85	.33	8.9	7.7	6.6	5.5	4.3
37	.476	.95	.43	.90	.38	.86	.34	.81	.28	8.6	7.1	5.7	4.2	2.8
38	.471	.94	.41	.88	.35	.83	.30	.77	.24	8.3	6.5	4.8	3.0	41.3
39	.466	.93	.40	.86	.33	.80	.27	.73	.19	8.0	5.9	3.9	1.8	39.8
34 40	25.461	50.92	76.38	101.84	127.30	152.76	178.23	203.69	229.15	1527.6	3055.3	4582.9	6110.6	7638.2
41	.456	.91	.37	.82	.28	.73	.19	.65	.10	7.3	4.7	2.0	09.4	6.7
42	.451	.90	.35	.80	.25	.70	.16	.61	.06	7.0	4.1	1.1	8.2	5.2
43	.445	.89	.34	.78	.23	.67	.12	.56	9.01	6.7	3.4	80.1	6.9	3.6
44	.440	.88	.32	.76	.20	.64	.08	.52	8.96	6.4	2.8	79.2	5.7	2.1
34 45	25.435	50.87	76.31	101.74	127.17	152.61	178.05	203.48	228.92	1526.1	3052.2	4578.3	6104.5	7630.6
46	.430	.86	.29	.72	.15	.58	8.01	.44	.87	5.8	1.6	7.4	3.2	29.0
47	.425	.85	.28	.70	.12	.55	7.98	.40	.83	5.5	1.0	6.5	2.0	7.5
48	.420	.84	.26	.68	.10	.52	.94	.36	.78	5.2	50.4	5.5	100.8	6.0
49	.415	.83	.24	.66	.07	.49	.91	.32	.73	4.9	49.8	4.6	099.6	4.4
34 50	25.410	50.82	76.23	101.64	127.05	152.46	177.87	203.28	228.69	1524.6	3049.2	4573.7	6098.3	7622.9
51	.405	.81	.21	.62	.02	.43	.83	.24	.64	4.3	8.6	2.8	7.1	21.4
52	.399	.80	.20	.60	7.00	.40	.80	.20	.59	4.0	8.0	1.9	5.9	19.8
53	.394	.79	.18	.58	6.97	.37	.76	.15	.55	3.7	7.3	1.0	4.6	8.3
54	.389	.78	.17	.56	.95	.34	.73	.11	.50	3.4	6.7	70.1	3.4	6.8
34 55	25.384	50.77	76.15	101.54	126.92	153.30	177.69	203.07	228.46	1523.0	3046.1	4569.1	6092.2	7615.2
56	.379	.76	.14	.52	.89	.27	.65	3.03	.41	2.7	5.5	8.2	90.9	3.7
57	.374	.75	.12	.49	.87	.24	.62	2.99	.36	2.4	4.8	7.3	89.7	2.1
58	.369	.74	.11	.47	.84	.21	.58	.95	.32	2.1	4.2	6.3	8.5	10.6
59	.364	.73	.09	.45	.82	.18	.55	.91	.27	1.8	3.6	5.4	7.2	09.1
34 60	25.358	50.72	76.08	101.43	126.79	152.15	177.51	202.87	228.23	1521.5	3043.0	4564.5	6086.0	7607.5

TERRESTRIAL ARCS

Lat.	Latitude 34° to 35°—Meridional arcs						Latitude 34°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 34°30'		Value of 1'	Continuous sums of minutes from latitude 34°00'		Longitude	X	Y
	Meters	''	Meters	Meters	'	Meters	° '	Meters	Meters
34 00	30. 811			1848. 65			0 1	1 539. 8	0. 1
1	1	1	30. 81	. 66	1	1 848. 7	2	3 079. 6	0. 5
2	1	2	61. 63	. 66	2	3 697. 3	3	4 619. 3	1. 1
3	1	3	92. 44	. 67	3	5 546. 0	4	6 159. 1	2. 0
4	1	4	123. 25	. 67	4	7 394. 6			
34 05	30. 811	5	154. 07	1848. 68	5	9 243. 3	0 5	7 698. 9	3. 1
6	1	6	184. 88	. 68	6	11 092. 0	6	9 238. 7	4. 5
7	1	7	215. 69	. 69	7	12 940. 7	7	10 778. 5	6. 1
8	2	8	246. 51	. 69	8	14 789. 4	8	12 318. 3	8. 0
9	2	9	277. 32	. 70	9	16 638. 1	9	13 858. 0	10. 1
34 10	30. 812	10	308. 13	1848. 70	10	18 486. 8	0 10	15 397. 9	12. 5
11	2	1	338. 95	. 71	1	20 335. 5	15	23 096. 7	28. 2
12	2	2	369. 76	. 71	2	22 184. 2	20	30 795. 6	50. 1
13	2	3	400. 57	. 72	3	24 032. 9	25	38 494. 4	78. 3
14	2	4	431. 39	. 72	4	25 881. 6	30	46 193. 2	112. 7
34 15	30. 812	15	462. 20	1848. 73	15	27 730. 4	0 35	53 892. 0	153. 4
16	2	6	493. 01	. 73	6	29 579. 1	40	61 590. 8	200. 4
17	2	7	523. 83	. 74	7	31 427. 8	45	69 289. 5	253. 6
18	2	8	554. 64	. 74	8	33 276. 6	50	76 988. 2	313. 1
19	2	9	585. 46	. 75	9	35 125. 3	55	84 686. 8	378. 8
34 20	30. 813	20	616. 27	1848. 75	20	36 974. 1	1 00	92 385. 4	450. 8
21	3	1	647. 08	. 76	1	38 822. 8	05	100 083. 9	529. 1
22	3	2	677. 90	. 76	2	40 671. 6	10	107 782. 3	613. 6
23	3	3	708. 71	. 77	3	42 520. 3	15	115 480. 7	704. 4
24	3	4	739. 52	. 78	4	44 369. 1	20	123 179. 0	801. 5
34 25	30. 813	25	770. 34	1848. 78	25	46 217. 9	1 25	130 877. 2	904. 8
26	3	6	801. 15	. 79	6	48 066. 7	30	138 575. 3	1 014. 4
27	3	7	831. 96	. 79	7	49 915. 5	35	146 273. 4	1 130. 2
28	3	8	862. 78	. 80	8	51 764. 3	40	153 971. 3	1 252. 3
29	3	9	893. 59	. 80	9	53 613. 1	45	161 669. 2	1 380. 7
34 30	30. 813	30	924. 40	1848. 81	30	55 461. 9	1 50	169 366. 9	1 515. 3
31	4	1	955. 22	. 81	1	57 310. 7	55	177 064. 5	1 656. 1
32	4	2	986. 03	. 82	2	59 159. 5	2 00	184 762	1 803
33	4	3	1 016. 84	. 82	3	61 008. 3	3 00	277 121	4 057
34	4	4	1 047. 66	. 83	4	62 857. 1	4 00	369 454	7 212
34 35	30. 814	35	1 078. 47	1848. 83	35	64 705. 9	5 00	461 751	11 268
36	4	6	1 109. 28	. 84	6	66 554. 8	6 00	554 004	16 225
37	4	7	1 140. 10	. 84	7	68 403. 6	7 00	646 205	22 082
38	4	8	1 170. 91	. 85	8	70 252. 5	8 00	738 344	28 839
39	4	9	1 201. 72	. 85	9	72 101. 3	9 00	880 413	36 494
34 40	30. 814	40	1 232. 54	1848. 86	40	73 950. 2	10 00	922 403	45 048
41	4	1	1 263. 35	. 86	1	75 799. 0	11 00	1 014 305	54 499
42	4	2	1 294. 16	. 87	2	77 647. 9	12 00	1 106 110	64 846
43	5	3	1 324. 98	. 87	3	79 496. 8	13 00	1 197 809	76 089
44	5	4	1 355. 79	. 88	4	81 345. 6	14 00	1 289 395	88 227
34 45	30. 815	45	1 386. 60	1848. 88	45	83 194. 5	15 00	1 380 858	101 258
46	5	6	1 417. 42	. 89	6	85 043. 4	16 00	1 472 190	115 180
47	5	7	1 448. 23	. 89	7	86 892. 3	17 00	1 563 381	129 993
48	5	8	1 479. 04	. 90	8	88 741. 2	18 00	1 654 423	145 696
49	5	9	1 509. 86	. 90	9	90 590. 1	19 00	1 745 308	162 287
34 50	30. 815	50	1 540. 67	1848. 91	50	92 439. 0	20 00	1 836 026	179 763
51	5	1	1 571. 48	. 91	1	94 287. 9	21 00	1 926 569	198 124
52	5	2	1 602. 30	. 92	2	96 136. 8	22 00	2 016 929	217 368
53	5	3	1 633. 11	. 92	3	97 985. 7	23 00	2 107 097	237 493
54	5	4	1 663. 93	. 93	4	99 834. 7	24 00	2 197 065	258 497
34 55	30. 816	55	1 694. 74	1848. 93	55	101 683. 6	25 00	2 286 823	280 378
56	6	6	1 725. 55	. 94	6	103 532. 5	26 00	2 376 363	303 134
57	6	7	1 756. 37	. 94	7	105 381. 5	27 00	2 465 677	326 763
58	6	8	1 787. 18	. 95	8	107 230. 4	28 00	2 554 756	351 262
59	6	9	1 817. 99	. 95	9	109 079. 4	29 00	2 643 591	376 629
34 60	30. 816	60	1 848. 81	1848. 96	60	110 928. 3	30 00	2 732 175	402 863

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 35° to 36°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
35 00	25.358	50.72	76.08	101.43	126.79	152.15	177.51	202.87	228.23	1521.5	3043.0	4564.5	6086.0	7607.5
1	.353	.71	.06	.41	.76	.12	.47	.83	.18	1.2	2.4	3.6	4.8	6.0
2	.348	.70	.04	.39	.74	.09	.44	.78	.14	0.9	1.8	2.7	3.5	4.4
3	.343	.69	.03	.37	.71	.06	.40	.74	.09	0.6	1.2	1.7	2.3	2.9
4	.338	.68	.01	.35	.69	.03	.37	.70	.04	0.3	40.5	60.8	81.1	601.3
35 05	25.333	50.67	76.00	101.33	126.66	152.00	177.33	202.66	228.00	1520.0	3039.9	4559.9	6079.8	7599.8
6	.327	.65	5.98	.31	.63	1.96	.29	.62	7.95	19.6	9.3	9.0	8.6	8.2
7	.322	.64	.97	.29	.61	.93	.26	.58	.91	9.3	8.7	8.0	7.4	6.7
8	.317	.63	.95	.27	.58	.90	.22	.54	.86	9.0	8.0	7.1	6.1	5.1
9	.312	.62	.94	.25	.56	.87	.19	.50	.81	8.7	7.4	6.1	4.9	3.6
35 10	25.307	50.61	75.92	101.23	126.53	151.84	177.15	202.46	227.76	1518.4	3036.8	4555.2	6073.7	7592.1
11	.302	.60	.91	.21	.51	.81	.11	.41	.72	8.1	6.2	4.3	2.4	90.5
12	.296	.59	.89	.19	.48	.78	.08	.37	.67	7.8	5.6	3.4	71.1	88.9
13	.291	.58	.87	.17	.46	.75	.04	.33	.62	7.5	5.0	2.4	69.9	7.4
14	.286	.57	.86	.14	.43	.72	7.01	.29	.58	7.2	4.3	1.5	8.6	5.8
35 15	25.281	50.56	75.84	101.12	126.41	151.69	176.97	202.25	227.53	1516.9	3033.7	4550.6	6067.4	7584.3
16	.276	.55	.83	.10	.38	.65	.93	.21	.49	6.5	3.1	49.7	6.2	2.7
17	.271	.54	.81	.08	.35	.62	.90	.17	.44	6.2	2.5	8.7	5.0	81.2
18	.265	.53	.80	.06	.33	.59	.86	.12	.39	5.9	1.8	7.8	3.7	79.6
19	.260	.52	.78	.04	.30	.56	.82	.08	.34	5.6	1.2	6.8	2.5	8.1
35 20	25.255	50.51	75.77	101.02	126.28	151.53	176.79	202.04	227.30	1515.3	3030.6	4545.9	6061.2	7576.5
21	.250	.50	.75	1.00	.25	.50	.75	2.00	.25	5.0	30.0	5.0	60.0	5.0
22	.245	.49	.73	0.98	.23	.47	.72	1.96	.20	4.7	29.4	4.0	58.7	3.4
23	.240	.48	.72	.96	.20	.44	.68	.92	.16	4.4	8.8	3.1	7.5	1.9
24	.234	.47	.70	.94	.18	.41	.64	.87	.11	4.1	8.1	2.1	6.2	70.3
35 25	25.229	50.46	75.69	100.92	126.15	151.37	176.60	201.83	227.06	1513.7	3027.5	4541.2	6055.0	7568.7
26	.224	.45	.67	.90	.12	.34	.57	.79	7.02	3.4	6.9	40.3	3.8	7.2
27	.219	.44	.66	.87	.09	.31	.53	.75	6.97	3.1	6.2	39.4	2.5	5.6
28	.214	.43	.64	.85	.07	.28	.49	.71	.92	2.8	5.6	8.4	1.3	4.1
29	.208	.42	.63	.83	.04	.25	.46	.67	.88	2.5	5.0	7.5	50.0	2.5
35 30	25.203	50.41	75.61	100.81	126.02	151.22	176.42	201.63	226.83	1512.2	3024.4	4536.6	6048.8	7561.0
31	.198	.40	.59	.79	5.99	.19	.38	.58	.78	1.9	3.8	5.7	7.5	59.4
32	.193	.39	.58	.77	.97	.16	.35	.54	.74	1.6	3.1	4.7	6.2	7.8
33	.188	.38	.56	.75	.94	.13	.31	.50	.69	1.3	2.5	3.8	5.0	6.3
34	.182	.36	.55	.73	.91	.09	.28	.46	.64	0.9	1.9	2.8	3.8	4.7
35 35	25.177	50.35	75.53	100.71	125.88	151.06	176.24	201.42	226.60	1510.6	3021.2	4531.9	6042.5	7553.1
36	.172	.34	.52	.69	.86	.03	.20	.38	.55	0.3	0.6	1.0	1.3	1.6
37	.167	.33	.50	.67	.84	1.00	.17	.33	.50	10.0	20.0	30.0	40.0	50.0
38	.161	.32	.48	.65	.81	0.97	.13	.29	.45	09.7	19.4	29.1	38.7	48.4
39	.156	.31	.47	.63	.79	.94	.10	.25	.41	9.4	8.8	8.1	7.5	6.9
35 40	25.151	50.30	75.45	100.60	125.76	150.91	176.06	201.21	226.36	1509.1	3018.1	4527.2	6036.2	7545.3
41	.146	.29	.44	.58	.73	.87	6.02	.17	.31	8.7	7.5	6.3	5.0	3.7
42	.141	.28	.42	.56	.70	.84	5.99	.13	.27	8.4	6.9	5.3	3.8	2.2
43	.135	.27	.41	.54	.68	.81	.95	.08	.22	8.1	6.2	4.4	2.5	40.6
44	.130	.26	.39	.52	.65	.78	.91	.04	.17	7.8	5.6	3.4	31.2	39.0
35 45	25.125	50.25	75.37	100.50	125.62	150.75	175.87	201.00	226.12	1507.5	3015.0	4522.5	6029.9	7537.4
46	.120	.24	.36	.48	.60	.72	.84	0.96	.08	7.2	4.4	1.6	8.7	5.9
47	.114	.23	.34	.46	.57	.69	.80	.91	6.03	6.9	3.7	20.6	7.4	4.3
48	.109	.22	.33	.44	.54	.65	.76	.87	5.98	6.5	3.1	19.7	6.2	2.7
49	.104	.21	.31	.42	.52	.62	.72	.83	.94	6.2	2.5	8.7	5.0	31.2
35 50	25.099	50.20	75.30	100.39	125.49	150.59	175.69	200.79	225.89	1505.9	3011.8	4517.8	6023.7	7529.6
51	.093	.19	.28	.37	.46	.56	.65	.75	.84	5.6	1.2	6.8	2.4	8.0
52	.088	.18	.26	.35	.44	.53	.62	.70	.79	5.3	0.6	5.9	21.1	6.4
53	.083	.17	.25	.33	.41	.50	.58	.66	.75	5.0	10.0	4.9	19.9	4.9
54	.078	.16	.23	.31	.39	.47	.54	.62	.70	4.7	09.3	4.0	8.6	3.3
35 55	25.072	50.14	75.22	100.29	125.36	150.43	175.50	200.58	225.65	1504.3	3008.7	4513.0	6017.4	7521.7
56	.067	.13	.20	.27	.33	.40	.47	.54	.60	4.0	8.0	2.1	6.1	20.1
57	.062	.12	.19	.25	.31	.37	.43	.49	.55	3.7	7.4	1.1	4.8	18.5
58	.057	.11	.17	.23	.28	.34	.39	.45	.51	3.4	6.8	10.2	3.6	7.0
59	.051	.10	.15	.21	.26	.31	.36	.41	.46	3.1	6.2	09.2	2.3	5.4
35 60	25.046	50.09	75.14	100.18	125.23	150.28	175.32	200.37	225.41	1502.8	3005.5	4508.3	6011.0	7513.8

Lat.	Latitude 35° to 36°—Meridional arcs						Latitude 35°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 35°30'		Value of 1'		Continuous sums of minutes from latitude 35°00'		Longitude	X	Y
	Meters	"	Meters	Meters	Meters	'	Meters	° '	Meters	Meters	
35 00	30.816			1848.96				0 1	1 521.5	0.1	
1	6	1	30.82	.96	1	1 849.0	0 1	1 521.5	0.1		
2	6	2	61.64	.97	2	3 697.9	2	3 043.0	0.5		
3	6	3	92.46	.97	3	5 546.9	3	4 564.5	1.1		
4	6	4	123.27	.98	4	7 395.9	4	6 086.0	2.0		
35 05	30.816	5	154.09	1848.99	5	9 244.9	0 5	7 607.5	3.2		
6	7	6	184.91	8.99	6	11 093.9	6	9 129.0	4.6		
7	7	7	215.73	9.00	7	12 942.8	7	10 650.5	6.2		
8	7	8	246.55	.00	8	14 791.8	8	12 172.0	8.1		
9	7	9	277.37	.01	9	16 640.8	9	13 693.5	10.3		
35 10	30.817	10	308.19	1849.01	10	18 489.9	0 10	15 215.0	12.7		
11	7	1	339.00	.02	1	20 338.9	15	22 822.5	28.6		
12	7	2	369.82	.02	2	22 187.9	20	30 430.0	50.8		
13	7	3	400.64	.03	3	24 036.9	25	38 037.5	79.3		
14	7	4	431.46	.03	4	25 885.9	30	45 645.0	114.2		
35 15	30.817	15	462.28	1849.04	15	27 735.0	0 35	53 252.4	155.5		
16	7	6	493.10	.04	6	29 584.0	40	60 859.7	203.1		
17	7	7	523.92	.05	7	31 433.1	45	68 467.1	257.0		
18	8	8	554.73	.05	8	33 282.1	50	76 074.3	317.3		
19	8	9	585.55	.06	9	35 131.2	55	83 681.6	384.0		
35 20	30.818	20	616.37	1849.06	20	36 980.2	1 00	91 288.8	456.9		
21	8	1	647.19	.07	1	38 829.3	05	98 895.9	536.3		
22	8	2	678.01	.07	2	40 678.4	10	106 502.9	622.0		
23	8	3	708.83	.08	3	42 527.4	15	114 109.9	714.0		
24	8	4	739.65	.08	4	44 376.5	20	121 716.8	812.4		
35 25	30.818	25	770.46	1849.09	25	46 225.6	1 25	129 323.6	917.1		
26	8	6	801.28	.09	6	48 074.7	30	136 930.3	1 028.1		
27	8	7	832.10	.10	7	49 923.8	35	144 536.9	1 145.5		
28	8	8	862.92	.10	8	51 772.9	40	152 143.4	1 269.3		
29	8	9	893.74	.11	9	53 622.0	45	159 749.8	1 399.4		
35 30	30.819	30	924.56	1849.11	30	55 471.1	1 50	167 356.1	1 535.8		
31	9	1	955.38	.12	1	57 320.2	55	174 962.3	1 678.6		
32	9	2	986.19	.12	2	59 169.4	2 00	182 568	1 828		
33	9	3	1 017.01	.13	3	61 018.5	3 00	273 830	4 112		
34	9	4	1 047.83	.13	4	62 867.6	4 00	365 064	7 310		
35 35	30.819	35	1 078.65	1489.14	35	64 716.7	5 00	456 261	11 421		
36	9	6	1 109.47	.15	6	66 565.9	6 00	547 412	16 445		
37	9	7	1 140.29	.15	7	68 415.0	7 00	638 509	22 381		
38	9	8	1 171.11	.16	8	70 264.2	8 00	729 542	29 229		
39	9	9	1 201.92	.16	9	72 113.3	9 00	820 501	36 987		
35 40	30.819	40	1 232.74	1849.17	40	73 962.5	10 00	911 379	45 656		
41	20	1	1 263.56	.17	1	75 811.7	11 00	1 002 165	55 234		
42	0	2	1 294.38	.18	2	77 660.8	12 00	1 092 850	65 721		
43	0	3	1 325.20	.18	3	79 510.0	13 00	1 183 426	77 115		
44	0	4	1 356.02	.19	4	81 359.2	14 00	1 273 884	89 415		
35 45	30.820	45	1 386.84	1849.19	45	83 208.4	15 00	1 364 214	102 619		
46	0	6	1 417.65	.20	6	85 057.6	16 00	1 454 407	116 728		
47	0	7	1 448.47	.20	7	86 906.8	17 00	1 544 454	131 738		
48	0	8	1 479.29	.21	8	88 756.0	18 00	1 634 347	147 650		
49	0	9	1 510.11	.21	9	90 605.2	19 00	1 724 076	164 460		
35 50	30.820	50	1 540.93	1849.22	50	92 454.4	20 00	1 813 632	182 168		
51	0	1	1 571.75	.22	1	94 303.6	21 00	1 903 006	200 772		
52	0	2	1 602.57	.23	2	96 152.9	22 00	1 992 190	220 268		
53	1	3	1 633.38	.23	3	98 002.1	23 00	2 081 174	240 657		
54	1	4	1 664.20	.24	4	99 851.3	24 00	2 169 949	261 936		
35 55	30.821	55	1 695.02	1849.24	55	101 700.6	25 00	2 258 507	284 102		
56	1	6	1 725.84	.25	6	103 549.8	26 00	2 346 838	307 154		
57	1	7	1 756.66	.25	7	105 399.1	27 00	2 434 934	331 089		
58	1	8	1 787.48	.26	8	107 248.3	28 00	2 522 787	355 905		
59	1	9	1 818.30	.26	9	109 097.6	29 00	2 610 386	381 598		
35 60	30.821	60	1 849.11	1849.27	60	110 946.9	30 00	2 697 724	408 168		

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 36° to 37°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
36 00	25.046	50.09	75.14	100.18	125.23	150.28	175.32	200.37	225.41	1502.8	3005.5	4508.3	6011.0	7513.8
1	.041	.08	.12	.16	.20	.25	.29	.33	.36	2.5	4.9	7.3	9.8	2.2
2	.035	.07	.11	.14	.18	.22	.25	.28	.32	2.2	4.3	6.4	8.5	10.6
3	.030	.06	.09	.12	.15	.18	.21	.24	.27	1.8	3.6	5.4	7.2	9.1
4	.025	.05	.08	.10	.13	.15	.17	.20	.22	1.5	3.0	4.5	6.0	7.5
36 05	25.020	50.04	75.06	100.08	125.10	150.12	175.14	200.16	225.17	1501.2	3002.4	4503.5	6004.7	7505.9
6	.014	.03	.04	.06	.07	.09	.10	.11	.13	0.9	1.7	2.6	3.4	4.3
7	.009	.02	.03	.04	.05	.06	.06	.07	.08	0.6	1.1	1.6	2.2	2.7
8	.004	.01	.01	100.02	5.02	50.02	5.02	200.03	5.03	500.2	3000.5	500.7	6000.9	501.1
9	4.999	50.00	5.00	99.99	4.99	49.99	4.99	199.99	4.99	499.9	2999.8	499.7	5999.6	499.6
36 10	24.993	49.99	74.98	99.97	124.97	149.96	174.95	199.95	224.94	1499.6	2999.2	4498.8	5998.4	7498.0
11	.988	.98	.96	.95	.94	.93	.91	.90	.89	9.3	8.6	7.8	7.1	6.4
12	.983	.97	.95	.93	.92	.90	.88	.86	.84	9.0	7.9	6.9	5.8	4.8
13	.977	.95	.93	.91	.89	.86	.84	.82	.80	8.6	7.3	5.9	4.6	3.2
14	.972	.94	.92	.89	.86	.83	.80	.78	.75	8.3	6.6	5.0	3.3	1.6
36 15	24.967	49.93	74.90	99.87	124.84	149.80	174.77	199.73	224.70	1498.0	2996.0	4494.0	5992.0	7490.0
16	.961	.92	.88	.85	.81	.77	.73	.69	.65	7.7	5.4	3.0	90.7	88.4
17	.956	.91	.87	.82	.78	.74	.69	.65	.60	7.4	4.7	2.1	89.5	6.8
18	.951	.90	.85	.80	.75	.70	.65	.61	.56	7.0	4.1	1.1	8.2	5.2
19	.946	.89	.84	.78	.73	.67	.62	.56	.51	6.7	3.4	90.2	6.9	3.7
36 20	24.940	49.88	74.82	99.76	124.70	149.64	174.58	199.52	224.46	1496.4	2992.8	4489.2	5985.7	7482.1
21	.935	.87	.80	.74	.67	.61	.54	.48	.41	6.1	2.2	8.3	4.4	80.5
22	.930	.86	.79	.72	.65	.58	.51	.44	.36	5.8	1.5	7.3	3.1	78.9
23	.924	.85	.77	.70	.62	.54	.47	.39	.32	5.4	0.9	6.4	1.8	7.3
24	.919	.84	.76	.67	.59	.51	.43	.35	.27	5.1	90.2	5.4	80.5	5.7
36 25	24.914	49.83	74.74	99.65	124.57	149.48	174.39	199.31	224.22	1494.8	2989.6	4484.5	5979.3	7474.1
26	.908	.82	.72	.63	.54	.45	.36	.27	.17	4.5	9.0	3.5	8.0	2.5
27	.903	.81	.71	.61	.52	.42	.32	.22	.13	4.2	8.3	2.6	6.7	70.9
28	.898	.79	.69	.59	.49	.38	.28	.18	.08	3.8	7.7	1.6	5.4	69.3
29	.892	.78	.68	.57	.46	.35	.25	.14	4.03	3.5	7.0	80.7	4.2	7.7
36 30	24.887	49.77	74.66	99.55	124.44	149.32	174.21	199.10	223.98	1493.2	2986.4	4479.7	5972.9	7466.1
31	.882	.76	.64	.53	.41	.29	.17	.05	.93	2.9	5.8	8.7	1.6	4.5
32	.876	.75	.63	.50	.38	.26	.14	9.01	.88	2.6	5.1	7.7	70.3	2.9
33	.871	.74	.61	.48	.35	.22	.10	8.97	.84	2.2	4.5	6.8	69.0	61.3
34	.866	.73	.60	.46	.33	.19	.06	.92	.79	1.9	3.8	5.8	7.7	59.7
36 35	24.860	49.72	74.58	99.44	124.30	149.16	174.02	198.88	223.74	1491.6	2983.2	4474.8	5966.5	7458.1
36	.855	.71	.56	.42	.28	.13	8.99	.84	.69	1.3	2.6	3.8	5.2	6.5
37	.850	.70	.55	.40	.25	.10	.95	.80	.64	1.0	1.9	2.9	3.9	4.9
38	.844	.69	.53	.38	.22	.06	.91	.75	.60	0.6	1.3	1.9	2.6	3.3
39	.839	.68	.52	.35	.19	.03	.87	.71	.55	0.3	0.6	1.0	1.3	1.7
36 40	24.834	49.67	74.50	99.33	124.17	149.00	173.84	198.67	223.50	1490.0	2980.0	4470.0	5960.1	7450.1
41	.828	.66	.48	.31	.14	8.97	.80	.63	.45	89.7	79.4	69.0	58.8	48.5
42	.823	.65	.47	.29	.12	.94	.76	.58	.40	9.4	8.7	8.1	7.5	6.8
43	.817	.63	.45	.27	.09	.90	.72	.54	.36	9.0	8.1	7.1	6.2	5.2
44	.812	.62	.44	.25	.06	.87	.69	.50	.31	8.7	7.4	6.2	4.9	3.6
36 45	24.807	49.61	74.42	99.23	124.03	148.84	173.65	198.45	223.26	1488.4	2976.8	4465.2	5953.6	7442.0
46	.801	.60	.40	.21	4.01	.81	.61	.41	.21	8.1	6.2	4.2	2.3	40.4
47	.796	.59	.39	.18	3.98	.78	.57	.37	.16	7.8	5.5	3.3	51.0	38.8
48	.791	.58	.37	.16	.95	.74	.54	.33	.12	7.4	4.9	2.3	49.8	7.2
49	.785	.57	.36	.14	.93	.71	.50	.28	.07	7.1	4.2	1.4	8.5	5.6
36 50	24.780	49.56	74.34	99.12	123.90	148.68	173.46	198.24	223.02	1486.8	2973.6	4460.4	5947.2	7434.0
51	.775	.55	.32	.10	.87	.65	.42	.20	2.97	6.5	3.0	59.4	5.9	2.4
52	.769	.54	.31	.08	.85	.62	.38	.15	.92	6.2	2.3	8.4	4.6	30.7
53	.764	.53	.29	.06	.82	.58	.35	.11	.87	5.8	1.7	7.5	3.3	29.1
54	.758	.52	.28	.03	.79	.55	.31	.07	.82	5.5	1.0	6.5	2.0	7.5
36 55	24.753	49.51	74.26	99.01	123.76	148.52	173.27	198.02	222.78	1485.2	2970.4	4455.5	5940.7	7425.9
56	.748	.50	.24	8.99	.74	.49	.23	7.98	.73	4.9	69.7	4.5	39.4	4.3
57	.742	.49	.23	.97	.71	.46	.20	.94	.68	4.6	9.1	3.6	8.1	2.7
58	.737	.47	.21	.95	.68	.42	.16	.89	.63	4.2	8.4	2.6	6.8	21.0
59	.731	.46	.19	.93	.66	.39	.12	.85	.58	3.9	7.8	1.7	5.5	19.4
36 60	24.726	49.45	74.18	98.90	123.63	148.36	173.08	197.81	222.53	1483.6	2967.1	4450.7	5934.3	7417.8

Lat.	Latitude 36° to 37°—Meridional arcs						Latitude 36°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 36°30'		Value of 1'	Continuous sums of minutes from latitude 36°00'		Longitude	X	Y
	<i>Meters</i>	"	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
36 00	30.821			1849.27			0 1	1 502.8	0.1
1	1	1	30.82	.28	1	1 849.3	2	3 005.5	0.5
2	1	2	61.65	.28	2	3 698.5	3	4 508.3	1.2
3	1	3	92.47	.29	3	5 547.8	4	6 011.1	2.1
4	2	4	123.29	.29	4	7 397.1			
36 05	30.822	5	154.12	1849.30	5	9 246.4	0 5	7 513.8	3.2
6	2	6	184.94	.30	6	11 095.7	6	9 016.6	4.6
7	2	7	215.77	.31	7	12 945.0	7	10 519.3	6.3
8	2	8	246.59	.31	8	14 794.3	8	12 022.1	8.2
9	2	9	277.41	.32	9	16 643.6	9	13 524.8	10.4
36 10	30.822	10	308.24	1849.32	10	18 493.0	0 10	15 027.6	12.8
11	2	1	339.06	.33	1	20 342.3	15	22 541.4	28.9
12	2	2	369.89	.33	2	22 191.6	20	30 055.2	51.4
13	2	3	400.71	.34	3	24 040.9	25	37 568.9	80.3
14	2	4	431.53	.34	4	25 890.3	30	45 082.7	115.6
36 15	30.822	15	462.36	1849.35	15	27 739.6	0 35	52 596.4	157.4
16	3	6	493.18	.35	6	29 589.0	40	60 110.0	205.6
17	3	7	524.00	.36	7	31 438.3	45	67 623.6	260.2
18	3	8	554.83	.36	8	33 287.7	50	75 137.3	321.2
19	3	9	585.65	.37	9	35 137.1	55	82 650.8	388.7
36 20	30.823	20	616.48	1849.37	20	36 986.4	1 00	90 164.3	462.5
21	3	1	647.30	.38	1	38 835.8	05	97 677.7	542.8
22	3	2	678.12	.38	2	40 685.2	10	105 191.0	629.5
23	3	3	708.95	.39	3	42 534.6	15	112 704.2	722.6
24	3	4	739.77	.40	4	44 384.0	20	120 217.4	822.2
36 25	30.823	25	770.59	1849.40	25	46 233.4	1 25	127 730.4	928.2
26	3	6	801.42	.41	6	48 082.8	30	135 243.4	1 040.6
27	4	7	832.24	.41	7	49 932.2	35	142 756.3	1 159.4
28	4	8	863.07	.42	8	51 781.6	40	150 269.1	1 284.7
29	4	9	893.89	.42	9	53 631.0	45	157 781.7	1 416.4
36 30	30.824	30	924.71	1849.43	30	55 480.4	1 50	165 294.3	1 554.5
31	4	1	955.54	.43	1	57 329.9	55	172 806.8	1 699.0
32	4	2	986.36	.44	2	59 179.3	2 00	180 319	1 850
33	4	3	1 017.18	.44	3	61 028.7	3 00	270 455	4 162
34	4	4	1 048.01	.45	4	62 878.2	4 00	360 562	7 399
36 35	30.824	35	1 078.83	1849.45	35	64 727.6	5 00	450 631	11 560
36	4	6	1 109.66	.46	6	66 577.1	6 00	540 653	16 645
37	4	7	1 140.48	.46	7	68 426.6	7 00	630 618	22 652
38	4	8	1 171.30	.47	8	70 276.0	8 00	720 517	29 583
39	5	9	1 202.13	.47	9	72 125.5	9 00	810 340	37 435
36 40	30.825	40	1 232.95	1849.48	40	73 975.0	10 00	900 078	46 209
41	5	1	1 263.77	.48	1	75 824.5	11 00	989 720	55 903
42	5	2	1 294.60	.49	2	77 673.9	12 00	1 079 259	66 515
43	5	3	1 325.42	.49	3	79 523.4	13 00	1 168 684	78 046
44	5	4	1 356.25	.50	4	81 372.9	14 00	1 257 987	90 494
36 45	30.825	45	1 387.07	1849.51	45	83 222.4	15 00	1 347 156	103 856
46	5	6	1 417.89	.51	6	85 071.9	16 00	1 436 184	118 133
47	5	7	1 448.72	.52	7	86 922.5	17 00	1 525 061	133 323
48	5	8	1 479.54	.52	8	88 772.0	18 00	1 613 777	149 423
49	5	9	1 510.36	.53	9	90 620.5	19 00	1 702 324	166 433
36 50	30.826	50	1 541.19	1849.53	50	92 470.0	20 00	1 790 691	184 350
51	6	1	1 572.01	.54	1	94 319.6	21 00	1 878 870	203 173
52	6	2	1 602.84	.54	2	96 169.1	22 00	1 966 851	222 899
53	6	3	1 633.66	.55	3	98 018.6	23 00	2 054 625	243 527
54	6	4	1 664.48	.55	4	99 868.2	24 00	2 142 183	265 055
36 55	30.826	55	1 695.31	1849.56	55	101 717.8	25 00	2 229 516	287 479
56	6	6	1 726.13	.56	6	103 567.3	26 00	2 316 613	310 798
57	6	7	1 756.95	.57	7	105 416.9	27 00	2 403 467	335 009
58	6	8	1 787.78	.57	8	107 266.5	28 00	2 490 068	360 111
59	6	9	1 818.60	.58	9	109 116.0	29 00	2 576 407	386 099
36 60	30.826	60	1 849.43	1849.58	60	110 965.6	30 00	2 662 475	412 971

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 37° to 38°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
37 00	24.726	49.45	74.18	98.90	123.63	148.36	173.08	197.81	222.53	1483.6	2967.1	4450.7	5934.3	7417.8
1	.721	.44	.16	.88	.60	.33	.05	.77	.48	3.3	6.5	49.7	3.0	6.3
2	.715	.43	.15	.86	.57	.29	3.00	.72	.43	2.9	5.8	8.7	1.7	4.6
3	.710	.42	.13	.84	.55	.26	2.97	.68	.39	2.6	5.2	7.8	30.4	2.9
4	.704	.41	.11	.82	.52	.23	.93	.64	.34	2.3	4.5	6.8	29.1	1.3
37 05	24.699	49.40	74.10	98.80	123.49	148.19	172.89	197.59	222.29	1481.9	2963.9	4445.8	5927.8	7409.7
6	.694	.39	.08	.77	.46	.16	.85	.55	.24	1.6	3.2	4.8	6.5	8.1
7	.688	.38	.07	.75	.43	.13	.82	.51	.19	1.3	2.6	3.9	5.2	6.5
8	.683	.36	.05	.73	.41	.10	.78	.46	.15	1.0	1.9	2.9	3.9	4.8
9	.677	.35	.03	.71	.38	.06	.74	.42	.10	0.6	1.3	2.0	2.6	3.2
37 10	24.672	49.34	74.02	98.69	123.36	148.03	172.70	197.38	222.05	1480.3	2960.6	4441.0	5921.3	7401.6
11	.667	.33	4.00	.67	.33	8.00	.66	.33	2.00	80.0	60.0	40.0	20.0	400.0
12	.661	.32	3.98	.64	.30	7.97	.63	.29	1.95	79.7	59.3	39.0	18.7	398.3
13	.656	.31	.97	.62	.27	.93	.59	.25	.90	9.3	8.7	8.1	7.4	6.7
14	.650	.30	.95	.60	.25	.90	.55	.20	.85	9.0	8.0	7.1	6.1	5.1
37 15	24.645	49.29	73.93	98.58	123.22	147.87	172.51	197.16	221.81	1478.7	2957.4	4436.1	5914.8	7393.4
16	.639	.28	.92	.56	.20	.84	.48	.12	.76	8.4	6.7	5.1	3.5	1.8
17	.634	.27	.90	.54	.17	.81	.44	.07	.71	8.1	6.1	4.1	2.2	90.2
18	.629	.26	.89	.51	.14	.77	.40	7.03	.66	7.7	5.4	3.2	10.8	88.6
19	.623	.25	.87	.49	.12	.74	.36	6.98	.61	7.4	4.8	2.2	09.5	6.9
37 20	24.618	49.24	73.85	98.47	123.09	147.71	172.32	196.94	221.56	1477.1	2954.1	4431.2	5908.2	7385.3
21	.612	.23	.84	.45	.06	.68	.29	.90	.51	6.8	3.5	30.2	6.9	3.7
22	.607	.21	.82	.43	.04	.64	.24	.85	.46	6.4	2.8	29.2	5.6	2.0
23	.601	.20	.80	.41	3.01	.61	.21	.81	.41	6.1	2.2	8.3	4.3	80.4
24	.596	.19	.79	.38	2.98	.58	.17	.77	.36	5.8	1.5	7.3	3.0	78.8
37 25	24.590	49.18	73.77	98.36	122.95	147.54	172.13	196.72	221.32	1475.4	2950.9	4426.3	5901.7	7377.1
26	.585	.17	.75	.34	.93	.51	.09	.68	.27	5.1	50.2	5.3	900.4	5.5
27	.580	.16	.74	.32	.90	.48	.06	.64	.22	4.8	49.6	4.3	899.1	3.9
28	.574	.15	.72	.30	.87	.44	2.02	.59	.17	4.4	8.9	3.4	7.8	2.2
29	.569	.14	.71	.28	.85	.41	1.98	.55	.12	4.1	8.3	2.4	6.5	70.6
37 30	24.563	49.13	73.69	98.25	122.82	147.38	171.94	196.51	221.07	1473.8	2947.6	4421.4	5895.2	7369.0
31	.558	.12	.67	.23	.79	.35	.91	.46	1.02	3.5	6.9	20.4	4.9	7.3
32	.552	.11	.66	.21	.76	.31	.86	.42	0.97	3.1	6.3	19.4	3.5	5.7
33	.547	.09	.64	.19	.74	.28	.83	.37	.92	2.8	5.6	8.4	2.2	4.0
34	.541	.08	.62	.17	.71	.25	.79	.33	.87	2.5	5.0	7.5	90.9	2.4
37 35	24.536	49.07	73.61	98.14	122.68	147.22	171.75	196.29	220.82	1472.2	2944.3	4416.5	5888.6	7360.8
36	.530	.06	.59	.12	.65	.18	.71	.24	.78	1.8	3.6	5.5	7.3	59.1
37	.525	.05	.58	.10	.62	.15	.67	.20	.73	1.5	3.0	4.5	6.0	7.5
38	.519	.04	.56	.08	.60	.12	.64	.16	.68	1.2	2.3	3.5	4.7	5.8
39	.514	.03	.54	.06	.57	.08	.60	.11	.63	0.8	1.7	2.5	3.4	4.2
37 40	24.509	49.02	73.53	98.03	122.54	147.05	171.56	196.07	220.58	1470.5	2941.0	4411.5	5882.0	7352.6
41	.503	.01	.51	8.01	.51	7.02	.52	6.02	.53	70.2	40.3	10.5	80.7	50.9
42	.498	9.00	.49	7.99	.49	6.99	.48	5.98	.48	69.9	39.7	09.5	79.4	49.3
43	.492	8.98	.48	.97	.46	.95	.45	.94	.43	9.5	9.0	8.6	8.1	7.6
44	.487	.97	.46	.95	.43	.92	.41	.89	.38	9.2	8.4	7.6	6.8	6.0
37 45	24.481	48.96	73.44	97.92	122.40	146.89	171.37	195.85	220.33	1468.9	2937.7	4406.6	5875.5	7344.3
46	.476	.95	.43	.90	.38	.85	.33	.80	.28	8.5	7.0	5.6	4.1	2.7
47	.470	.94	.41	.88	.35	.82	.29	.76	.23	8.2	6.4	4.6	2.8	41.0
48	.465	.93	.39	.86	.32	.79	.26	.72	.18	7.9	5.7	3.7	1.5	39.4
49	.459	.92	.38	.84	.30	.75	.21	.67	.13	7.5	5.1	2.7	70.2	7.7
37 50	24.454	48.91	73.36	97.81	122.27	146.72	171.17	195.63	220.08	1467.2	2934.4	4401.7	5868.9	7336.1
51	.448	.90	.34	.79	.24	.69	.14	.58	20.03	6.9	3.7	400.7	7.5	4.4
52	.443	.89	.33	.77	.21	.66	.10	.54	19.98	6.6	3.1	399.7	6.2	2.8
53	.437	.87	.31	.75	.19	.62	.06	.50	.93	6.2	2.4	8.7	4.9	31.1
54	.432	.86	.30	.73	.16	.59	1.02	.45	.88	5.9	1.8	7.7	3.6	29.5
37 55	24.426	48.85	73.28	97.70	122.13	146.56	170.98	195.41	219.83	1465.6	2931.1	4396.7	5862.3	7327.8
56	.421	.84	.26	.68	.10	.52	.94	.36	.79	5.2	30.5	5.7	60.9	6.2
57	.415	.83	.25	.66	.07	.49	.91	.32	.74	4.9	29.8	4.7	59.6	4.5
58	.410	.82	.23	.64	.05	.46	.87	.28	.69	4.6	9.1	3.7	8.3	2.9
59	.404	.81	.21	.62	2.02	.42	.83	.23	.64	4.2	8.5	2.7	7.0	21.2
37 60	24.399	48.80	73.20	97.59	121.99	146.39	170.79	195.19	219.59	1463.9	2927.8	4391.7	5855.6	7319.6

Lat.	Latitude 37° to 38°—Meridional arcs						Latitude 37°—Coordinates of curvature for the polyconic projection		
	Value of 1''		Sums of seconds for middle latitude 37°30'		Value of 1'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters			
37 00	30.826			1849.58			0 1	1 483.6	0.1
1	6	1	30.83	.59	1	1 849.6	2	2 967.1	0.5
2	7	2	61.66	.59	2	3 699.2	3	4 450.7	1.2
3	7	3	92.49	.60	3	5 548.8	4	5 934.2	2.1
4	7	4	123.32	.61	4	7 398.4			
37 05	30.827	5	154.15	1849.61	5	9 248.0	0 5	7 417.8	3.3
6	7	6	184.97	.62	6	11 097.6	6	8 901.4	4.7
7	7	7	215.80	.62	7	12 947.2	7	10 384.9	6.4
8	7	8	246.63	.63	8	14 796.8	8	11 868.5	8.3
9	7	9	277.46	.63	9	16 646.5	9	13 352.1	10.5
37 10	30.827	10	308.29	1849.64	10	18 496.1	0 10	14 835.6	13.0
11	7	1	339.12	.64	1	20 345.7	15	22 253.4	29.2
12	7	2	369.95	.65	2	22 195.4	20	29 671.2	51.9
13	8	3	400.78	.65	3	24 045.0	25	37 089.0	81.2
14	8	4	431.61	.66	4	25 894.7	30	44 506.7	116.9
37 15	30.828	15	462.44	1849.66	15	27 744.4	0 35	51 924.4	159.1
16	8	6	493.26	.67	6	29 594.0	40	59 342.1	207.8
17	8	7	524.09	.67	7	31 443.7	45	66 759.7	263.0
18	8	8	554.92	.68	8	33 293.4	50	74 177.2	324.6
19	8	9	585.75	.68	9	35 143.1	55	81 594.7	392.8
37 20	30.828	20	616.58	1849.69	20	36 992.7	1 00	89 012.2	467.5
21	8	1	647.41	.69	1	38 842.4	05	96 429.6	548.6
22	8	2	678.24	.70	2	40 692.1	10	103 846.9	636.3
23	8	3	709.07	.71	3	42 541.8	15	111 264.1	730.4
24	9	4	739.90	.71	4	44 391.5	20	118 681.2	831.1
37 25	30.829	25	770.73	1849.72	25	46 241.3	1 25	126 098.3	938.2
26	9	6	801.56	.72	6	48 091.0	30	133 515.2	1 051.8
27	9	7	832.38	.73	7	49 940.7	35	140 932.1	1 171.9
28	9	8	863.21	.73	8	51 790.4	40	148 348.8	1 298.5
29	9	9	894.04	.74	9	53 640.2	45	155 765.4	1 431.6
37 30	30.829	30	924.87	1849.74	30	55 489.9	1 50	163 181.9	1 571.2
31	9	1	955.70	.75	1	57 339.6	55	170 598.3	1 717.3
32	9	2	986.53	.75	2	59 189.4	2 00	178 015	1 870
33	9	3	1 017.36	.76	3	61 039.1	3 00	266 997	4 207
34	9	4	1 048.19	.76	4	62 888.9	4 00	355 951	7 479
37 35	30.829	35	1 079.02	1849.77	35	64 738.7	5 00	444 865	11 685
36	30	6	1 109.85	.77	6	66 588.4	6 00	533 730	16 824
37	0	7	1 140.67	.78	7	68 438.2	7 00	622 536	22 896
38	0	8	1 171.50	.78	8	70 288.0	8 00	711 273	29 901
39	0	9	1 202.33	.79	9	72 137.8	9 00	799 932	37 838
37 40	30.830	40	1 233.16	1849.80	40	73 987.6	10 00	888 503	46 706
41	0	1	1 263.99	.80	1	75 837.4	11 00	976 975	56 503
42	0	2	1 294.82	.81	2	77 687.2	12 00	1 065 340	67 229
43	0	3	1 325.65	.81	3	79 537.0	13 00	1 153 587	78 882
44	0	4	1 356.48	.82	4	81 386.8	14 00	1 241 707	91 462
37 45	30.830	45	1 387.31	1849.82	45	83 236.6	15 00	1 329 690	104 967
46	0	6	1 418.14	.83	6	85 086.5	16 00	1 417 526	119 395
47	1	7	1 448.96	.83	7	86 936.3	17 00	1 505 206	134 745
48	1	8	1 479.79	.84	8	88 786.1	18 00	1 592 721	151 015
49	1	9	1 510.62	.84	9	90 636.0	19 00	1 680 059	168 203
37 50	30.831	50	1 541.45	1849.85	50	92 485.8	20 00	1 767 211	186 307
51	1	1	1 572.28	.85	1	94 335.7	21 00	1 854 169	205 326
52	1	2	1 603.11	.86	2	96 185.5	22 00	1 940 922	225 258
53	1	3	1 633.94	.86	3	98 035.4	23 00	2 027 462	246 099
54	1	4	1 664.77	.87	4	99 885.2	24 00	2 113 777	267 849
37 55	30.831	55	1 695.60	1849.88	55	101 735.1	25 00	2 199 860	290 503
56	1	6	1 726.43	.88	6	103 585.0	26 00	2 285 699	314 061
57	1	7	1 757.26	.89	7	105 434.9	27 00	2 371 287	338 519
58	2	8	1 788.08	.89	8	107 284.8	28 00	2 456 612	363 874
59	2	9	1 818.91	.90	9	109 134.7	29 00	2 541 667	390 125
37 60	30.832	60	1 849.74	1849.90	60	110 984.5	30 00	2 626 441	417 267

Latitude 38° to 39°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
38 00	24.399	48.80	73.20	97.59	121.99	146.39	170.79	195.19	219.59	1463.9	2927.8	4391.7	5855.6	7319.6
1	.393	.79	.18	.57	.96	.36	.75	.15	.54	3.6	7.1	90.7	4.3	7.9
2	.387	.78	.16	.55	.94	.32	.71	.10	.49	3.2	6.5	89.7	3.0	6.2
3	.382	.77	.15	.53	.91	.29	.67	.06	.44	2.9	5.8	8.7	1.7	4.6
4	.376	.76	.13	.51	.88	.26	.63	5.01	.39	2.6	5.2	7.7	50.3	2.9
38 05	24.371	48.74	73.11	97.48	121.86	146.22	170.60	194.97	219.34	1462.3	2924.5	4386.7	5849.0	7311.3
6	.365	.73	.10	.46	.83	.19	.56	.93	.29	1.9	3.8	5.7	7.7	09.6
7	.360	.72	.08	.44	.80	.16	.52	.88	.24	1.6	3.2	4.7	6.3	7.9
8	.354	.71	.06	.42	.77	.13	.48	.84	.19	1.3	2.5	3.8	5.0	6.3
9	.349	.70	.05	.39	.75	.09	.44	.79	.14	0.9	1.9	82.8	3.7	4.6
38 10	24.343	48.69	73.03	97.37	121.72	146.06	170.40	194.75	219.09	1460.6	2921.2	4381.8	5842.4	7303.0
11	.338	.68	.01	.35	.69	6.03	.36	.71	9.04	60.3	20.5	80.8	41.0	301.3
12	.332	.67	3.00	.33	.66	5.99	.32	.66	8.99	59.9	19.8	79.8	39.7	299.6
13	.327	.66	2.98	.31	.64	.96	.29	.62	.94	9.6	9.2	8.8	8.4	8.0
14	.321	.65	.96	.29	.61	.93	.25	.57	.89	9.3	8.5	7.8	7.0	6.3
38 15	24.315	48.63	72.95	97.26	121.58	145.89	170.21	194.53	218.84	1458.9	2917.8	4376.8	5835.7	7294.6
16	.310	.62	.93	.24	.55	.86	.17	.48	.79	8.6	7.2	5.8	4.4	3.0
17	.304	.61	.91	.22	.52	.83	.13	.44	.74	8.3	6.5	4.8	3.0	91.3
18	.299	.60	.90	.19	.50	.79	.09	.39	.69	7.9	5.8	3.8	1.7	89.6
19	.293	.59	.88	.17	.47	.76	.05	.35	.64	7.6	5.2	2.8	30.4	8.0
38 20	24.288	48.58	72.86	97.15	121.44	145.73	170.01	194.30	218.59	1457.3	2914.5	4371.8	5829.0	7286.3
21	.282	.57	.85	.13	.41	.69	69.97	.26	.54	6.9	3.8	70.8	7.7	4.6
22	.276	.56	.83	.11	.38	.66	.93	.21	.49	6.6	3.2	69.8	6.4	2.9
23	.271	.54	.81	.08	.36	.63	.89	.17	.44	6.3	2.5	8.8	5.0	81.3
24	.265	.53	.80	.06	.33	.59	.85	.12	.39	5.9	1.9	7.8	3.7	79.6
38 25	24.260	48.52	72.78	97.04	121.30	145.56	169.82	194.08	218.34	1455.6	2911.2	4366.8	5822.3	7277.9
26	.254	.51	.76	.02	.27	.53	.78	4.04	.29	5.3	10.5	5.8	21.0	6.3
27	.249	.50	.75	7.00	.24	.49	.74	3.99	.24	4.9	09.8	4.8	19.7	4.6
28	.243	.48	.73	6.97	.22	.46	.70	.95	.19	4.6	9.2	3.7	8.3	2.9
29	.237	.47	.71	.95	.19	.42	.66	.90	.14	4.2	8.5	2.7	7.0	71.2
38 30	24.232	48.46	72.70	96.93	121.16	145.39	169.62	193.86	218.09	1453.9	2907.8	4361.7	5815.7	7269.6
31	.226	.45	.68	.91	.13	.36	.58	.82	8.04	3.6	7.1	60.7	4.3	7.9
32	.221	.44	.66	.88	.10	.32	.54	.77	7.99	3.2	6.5	59.7	3.0	6.2
33	.215	.43	.65	.86	.08	.29	.50	.73	.94	2.9	5.8	8.7	1.6	4.5
34	.210	.42	.63	.84	.05	.26	.46	.68	.89	2.6	5.2	7.7	10.3	2.9
38 35	24.204	48.40	72.61	96.81	121.02	145.22	169.43	193.63	217.83	1452.2	2904.5	4356.7	5808.9	7261.2
36	.198	.39	.60	.79	0.99	.19	.39	.59	.78	1.9	3.8	5.7	7.6	59.5
37	.193	.38	.58	.77	.96	.16	.35	.55	.73	1.6	3.1	4.7	6.3	7.8
38	.187	.37	.56	.75	.94	.12	.31	.50	.68	1.2	2.5	3.7	4.9	6.1
39	.182	.36	.55	.73	.91	.09	.27	.45	.63	0.9	1.8	2.7	3.6	4.5
38 40	24.176	48.35	72.53	96.70	120.88	145.06	169.23	193.41	217.58	1450.6	2901.1	4351.7	5802.2	7252.8
41	.170	.34	.51	.68	.85	5.02	.19	.37	.53	0.2	900.4	50.7	800.9	51.1
42	.165	.33	.49	.66	.82	4.99	.15	.32	.48	49.9	899.7	49.7	799.5	49.4
43	.159	.32	.48	.64	.80	.96	.11	.28	.43	9.6	9.1	8.6	8.2	7.7
44	.154	.31	.46	.61	.77	.92	.07	.23	.38	9.2	8.4	7.6	6.8	6.1
38 45	24.148	48.29	72.44	96.59	120.74	144.89	169.04	193.19	217.33	1448.9	2897.7	4346.6	5795.5	7244.4
46	.142	.28	.43	.57	.71	.85	9.00	.14	.28	8.5	7.0	5.6	4.1	2.7
47	.137	.27	.41	.55	.68	.82	8.96	.10	.23	8.2	6.4	4.6	2.8	41.0
48	.131	.26	.39	.52	.66	.79	.92	.05	.18	7.9	5.7	3.6	1.5	39.3
49	.125	.25	.38	.50	.63	.75	.88	3.01	.13	7.5	5.1	2.6	90.1	7.6
38 50	24.120	48.24	72.36	96.48	120.60	144.72	168.84	192.96	217.08	1447.2	2894.4	4341.6	5788.8	7236.0
51	.114	.23	.34	.46	.57	.69	.80	.92	7.03	6.9	3.7	40.6	7.4	4.3
52	.109	.22	.33	.43	.54	.65	.76	.87	6.98	6.5	3.0	39.6	6.1	2.6
53	.103	.21	.31	.41	.52	.62	.72	.83	.93	6.2	2.4	8.5	4.7	30.9
54	.097	.20	.29	.39	.49	.58	.68	.78	.88	5.8	1.7	7.5	3.3	29.2
38 55	24.092	48.18	72.28	96.36	120.46	144.55	168.64	192.74	216.82	1445.5	2891.0	4336.5	5782.0	7227.5
56	.086	.17	.26	.34	.43	.52	.60	.69	.77	5.2	90.3	5.5	80.6	5.8
57	.080	.16	.24	.32	.40	.48	.56	.65	.72	4.8	89.6	4.5	79.3	4.1
58	.075	.15	.22	.30	.38	.45	.52	.60	.67	4.5	9.0	3.4	7.9	2.4
59	.069	.14	.21	.28	.35	.41	.48	.56	.62	4.1	8.3	2.4	6.6	20.7
38 60	24.063	48.13	72.19	96.25	120.32	144.38	168.44	192.51	216.57	1443.8	2887.6	4331.4	5775.2	7219.0

Lat.	Latitude 38° to 39°—Meridional arcs						Latitude 38°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 38°30'		Value of 1'	Continuous sums of minutes from latitude 38°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
38 00	30. 832			1849. 90			0 1	1 463. 9	0. 1
1	2	1	30. 83	. 91	1	1 849. 9	0 2	2 927. 8	0. 5
2	2	2	61. 67	. 91	2	3 699. 8	0 3	4 391. 7	1. 2
3	2	3	92. 50	. 92	3	5 549. 7	0 4	5 855. 6	2. 1
4	2	4	123. 34	. 92	4	7 399. 6			
38 05	30. 832	5	154. 17	1849. 93	5	9 249. 6	0 5	7 319. 6	3. 3
6	2	6	185. 01	. 93	6	11 099. 5	0 6	8 783. 5	4. 7
7	2	7	215. 84	. 94	7	12 949. 4	0 7	10 247. 4	6. 4
8	2	8	246. 67	. 94	8	14 799. 4	0 8	11 711. 3	8. 4
9	2	9	277. 51	. 95	9	16 649. 3	0 9	13 175. 2	10. 6
38 10	30. 833	10	308. 34	1849. 95	10	18 499. 3	0 10	14 639. 1	13. 1
11	3	1	339. 18	. 96	1	20 349. 2	0 15	21 958. 6	29. 5
12	3	2	370. 01	. 97	2	22 199. 2	0 20	29 278. 2	52. 4
13	3	3	400. 85	. 97	3	24 049. 2	0 25	36 597. 6	81. 9
14	3	4	431. 68	. 98	4	25 899. 1	0 30	43 917. 1	118. 0
38 15	30. 833	15	462. 52	1849. 98	15	27 749. 1	0 35	51 236. 5	160. 6
16	3	6	493. 35	. 99	6	29 599. 1	0 40	58 555. 9	209. 8
17	3	7	524. 18	49. 99	7	31 449. 1	0 45	65 875. 3	265. 5
18	3	8	555. 02	50. 00	8	33 299. 1	0 50	73 194. 6	327. 7
19	3	9	585. 85	. 00	9	35 149. 1	0 55	80 513. 8	396. 5
38 20	30. 833	20	616. 69	1850. 01	20	36 999. 1	1 00	87 833. 0	471. 9
21	4	1	647. 52	. 01	1	38 849. 1	1 05	95 152. 1	553. 8
22	4	2	678. 36	. 02	2	40 699. 1	1 10	102 471. 1	642. 3
23	4	3	709. 19	. 02	3	42 549. 1	1 15	109 790. 0	737. 3
24	4	4	740. 02	. 03	4	44 399. 2	1 20	117 108. 9	838. 9
38 25	30. 834	25	770. 86	1850. 03	25	46 249. 2	1 25	124 427. 6	947. 1
26	4	6	801. 69	. 04	6	48 099. 2	1 30	131 746. 3	1 061. 8
27	4	7	832. 53	. 05	7	49 949. 3	1 35	139 064. 8	1 183. 0
28	4	8	863. 36	. 05	8	51 799. 3	1 40	146 383. 3	1 310. 8
29	4	9	894. 20	. 06	9	53 649. 4	1 45	153 701. 6	1 445. 2
38 30	30. 834	30	925. 03	1850. 06	30	55 499. 4	1 50	161 019. 8	1 586. 1
31	4	1	955. 87	. 07	1	57 349. 5	1 55	168 337. 9	1 733. 5
32	5	2	986. 70	. 07	2	59 199. 6	2 00	175 656	1 888
33	5	3	1 017. 53	. 08	3	61 049. 7	2 05	263 458	4 247
34	5	4	1 048. 37	. 08	4	62 899. 7	2 10	351 230	7 549
38 35	30. 835	35	1 079. 20	1850. 09	35	64 749. 8	5 00	438 962	11 795
36	5	6	1 110. 04	. 09	6	66 599. 9	6 00	526 643	16 983
37	5	7	1 140. 87	. 10	7	68 450. 0	7 00	614 263	23 112
38	5	8	1 171. 71	. 10	8	70 300. 1	8 00	701 812	30 183
39	5	9	1 202. 54	. 11	9	72 150. 2	9 00	789 280	38 195
38 40	30. 835	40	1 233. 37	1850. 11	40	74 000. 3	10 00	876 657	47 145
41	5	1	1 264. 21	. 12	1	75 850. 4	11 00	963 933	57 034
42	5	2	1 295. 04	. 13	2	77 700. 6	12 00	1 051 098	67 860
43	6	3	1 325. 88	. 13	3	79 550. 7	13 00	1 138 141	79 622
44	6	4	1 356. 71	. 14	4	81 400. 8	14 00	1 225 053	92 319
38 45	30. 836	45	1 387. 55	1850. 14	45	83 251. 0	15 00	1 311 823	105 949
46	6	6	1 418. 38	. 15	6	85 101. 1	16 00	1 398 441	120 511
47	6	7	1 449. 21	. 15	7	86 951. 3	17 00	1 484 899	136 002
48	6	8	1 480. 05	. 16	8	88 801. 4	18 00	1 571 185	152 421
49	6	9	1 510. 88	. 16	9	90 651. 6	19 00	1 657 289	169 767
38 50	30. 836	50	1 541. 72	1850. 17	50	92 501. 8	20 00	1 743 202	188 037
51	6	1	1 572. 55	. 17	1	94 351. 9	21 00	1 828 914	207 229
52	6	2	1 603. 39	. 18	2	96 202. 1	22 00	1 914 415	227 341
53	6	3	1 634. 22	. 18	3	98 052. 3	23 00	1 999 694	248 370
54	6	4	1 665. 06	. 19	4	99 902. 5	24 00	2 084 743	270 315
38 55	30. 837	55	1 695. 89	1850. 20	55	101 752. 7	25 00	2 169 551	293 172
56	7	6	1 726. 72	. 20	6	103 602. 9	26 00	2 254 109	316 939
57	7	7	1 757. 56	. 21	7	105 453. 1	27 00	2 338 406	341 613
58	7	8	1 788. 39	. 21	8	107 303. 3	28 00	2 422 433	367 192
59	7	9	1 819. 23	. 22	9	109 153. 5	29 00	2 506 181	393 672
38 60	30. 837	60	1 850. 06	1850. 22	60	111 003. 7	30 00	2 589 639	421 050

Latitude 39° to 40°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
39 00	24.063	48.13	72.19	96.25	120.32	144.38	168.44	192.51	216.57	1443.8	2887.6	4331.4	5775.2	7219.0
1	.058	.12	.17	.23	.29	.35	.40	.47	.52	3.5	6.9	30.4	3.9	7.4
2	.052	.11	.16	.21	.26	.31	.36	.42	.47	3.1	6.2	29.4	2.5	5.7
3	.047	.09	.14	.19	.23	.28	.32	.38	.42	2.8	5.6	8.4	71.2	4.0
4	.041	.08	.12	.16	.20	.25	.28	.33	.37	2.5	4.9	7.4	69.8	2.3
39 05	24.035	48.07	72.11	96.14	120.18	144.21	168.24	192.29	216.32	1442.1	2884.2	4326.3	5768.4	7210.6
6	.030	.06	.09	.12	.15	.18	.21	.24	.26	1.8	3.5	5.3	7.1	08.9
7	.024	.05	.07	.10	.12	.14	.17	.20	.21	1.4	2.8	4.3	5.7	7.2
8	.018	.03	.05	.07	.09	.11	.13	.15	.16	1.1	2.2	3.3	4.4	5.5
9	.013	.02	.04	.05	.06	.08	.09	.11	.11	0.8	1.5	2.3	3.0	3.8
39 10	24.007	48.01	72.02	96.03	120.03	144.04	168.05	192.06	216.06	1440.4	2880.8	4321.3	5761.7	7202.1
11	4.001	8.00	2.00	6.01	20.01	4.01	8.01	2.01	6.01	40.1	80.1	20.2	60.3	200.4
12	3.996	7.99	1.99	5.98	19.97	3.97	7.97	1.97	5.96	39.7	79.4	19.2	58.9	198.7
13	.990	.98	.97	.96	.95	.94	.93	.92	.91	9.4	8.8	8.2	7.6	7.0
14	.984	.97	.95	.94	.92	.91	.89	.88	.86	9.1	8.1	7.2	6.2	5.3
39 15	23.979	47.96	71.94	95.91	119.89	143.87	167.85	191.83	215.80	1438.7	2877.4	4316.1	5754.9	7193.6
16	.973	.94	.92	.89	.86	.84	.81	.78	.75	8.4	6.7	5.1	3.5	1.9
17	.967	.93	.90	.87	.83	.80	.77	.74	.70	8.0	6.0	4.1	2.1	90.2
18	.962	.92	.88	.85	.81	.77	.73	.69	.65	7.7	5.4	3.1	50.8	88.5
19	.956	.91	.87	.82	.78	.74	.69	.65	.60	7.4	4.7	2.0	49.4	6.8
39 20	23.950	47.90	71.85	95.80	119.75	143.70	167.65	191.60	215.55	1437.0	2874.0	4311.0	5748.0	7185.1
21	.944	.89	.83	.78	.72	.67	.61	.56	.50	6.7	3.3	10.0	6.7	3.3
22	.939	.88	.82	.75	.69	.63	.57	.51	.45	6.3	2.6	09.0	5.3	81.6
23	.933	.87	.80	.73	.67	.60	.53	.47	.40	6.0	2.0	8.0	3.9	79.9
24	.927	.86	.78	.71	.64	.56	.49	.42	.35	5.6	1.3	6.9	2.6	8.2
39 25	23.922	47.84	71.77	95.69	119.61	143.53	167.45	191.38	215.29	1435.3	2870.6	4305.9	5741.2	7176.5
26	.916	.83	.75	.66	.58	.50	.41	.33	.24	5.0	69.9	4.9	39.8	4.8
27	.910	.82	.73	.64	.55	.46	.37	.29	.19	4.6	9.2	3.9	8.5	3.1
28	.905	.81	.71	.62	.53	.43	.33	.24	.14	4.3	8.6	2.8	7.1	71.4
29	.899	.80	.70	.60	.50	.39	.29	.20	.09	3.9	7.9	1.8	5.7	69.7
39 30	23.893	47.79	71.68	95.57	119.47	143.36	167.25	191.15	215.04	1433.6	2867.2	4300.8	5734.4	7168.0
31	.888	.78	.66	.55	.44	.33	.21	.10	4.99	3.3	6.5	299.8	3.0	6.3
32	.882	.77	.65	.53	.41	.29	.17	.06	.94	2.9	5.8	8.7	1.6	4.5
33	.876	.75	.63	.50	.38	.26	.13	1.01	.88	2.6	5.2	7.7	30.3	2.8
34	.870	.74	.61	.48	.35	.22	.09	0.97	.83	2.2	4.5	6.7	28.9	61.1
39 35	23.865	47.73	71.59	95.46	119.33	143.19	167.05	190.92	214.78	1431.9	2863.8	4295.6	5727.5	7159.4
36	.859	.72	.58	.44	.30	.16	.07	.87	.73	1.6	3.1	4.6	6.1	7.7
37	.853	.71	.56	.42	.27	.12	6.97	.83	.68	1.2	2.4	3.6	4.8	6.0
38	.847	.69	.54	.39	.24	.09	.93	.78	.62	0.9	1.7	2.5	3.4	4.2
39	.842	.68	.53	.37	.21	.05	.89	.74	.57	0.5	1.0	1.5	2.0	2.5
39 40	23.836	47.67	71.51	95.35	119.18	143.02	166.85	190.69	214.52	1430.2	2860.3	4290.5	5720.7	7150.8
41	.830	.66	.49	.32	.15	2.98	.81	.64	.47	29.8	59.6	89.5	19.3	49.1
42	.825	.65	.47	.30	.12	.95	.77	.60	.42	9.5	8.9	8.4	7.9	7.4
43	.819	.64	.46	.28	.09	.91	.73	.55	.37	9.1	8.3	7.4	6.5	5.6
44	.813	.63	.44	.25	.06	.88	.69	.51	.32	8.8	7.6	6.4	5.1	3.9
39 45	23.807	47.61	71.42	95.23	119.03	142.84	166.65	190.46	214.26	1428.4	2856.9	4285.3	5713.8	7142.2
46	.802	.60	.41	.21	9.01	.81	.61	.41	.21	8.1	6.2	4.3	2.4	40.5
47	.796	.59	.39	.18	8.98	.78	.57	.37	.16	7.8	5.5	3.3	11.0	38.8
48	.790	.58	.37	.16	.95	.74	.53	.32	.11	7.4	4.8	2.2	09.6	7.0
49	.784	.57	.35	.14	.92	.71	.49	.28	.06	7.1	4.1	1.2	8.3	5.3
39 50	23.779	47.56	71.34	95.11	118.89	142.67	166.45	190.23	214.01	1426.7	2853.4	4280.2	5706.9	7133.6
51	.773	.55	.32	.09	.86	.64	.41	.18	3.96	6.4	2.7	79.1	5.5	1.9
52	.767	.53	.30	.07	.83	.60	.37	.14	.91	6.0	2.0	8.1	4.1	30.1
53	.761	.52	.28	.04	.81	.57	.33	.09	.85	5.7	1.4	7.1	2.7	28.4
54	.756	.51	.27	5.02	.78	.53	.29	.05	.80	5.3	0.7	6.0	1.4	6.7
39 55	23.750	47.50	71.25	94.99	118.75	142.50	166.25	190.00	213.75	1425.0	2850.0	4275.0	5700.0	7125.0
56	.744	.49	.23	.97	.72	.47	.21	89.95	.70	4.7	49.3	3.9	698.6	3.2
57	.738	.48	.21	.95	.69	.43	.17	.91	.65	4.3	8.6	2.9	7.2	21.5
58	.733	.46	.20	.93	.67	.40	.13	.86	.59	4.0	7.9	1.9	5.8	19.8
59	.727	.45	.18	.90	.63	.36	.09	.81	.54	3.6	7.2	70.8	4.4	8.1
39 60	23.721	47.44	71.16	94.88	118.61	142.33	166.05	189.77	213.49	1423.3	2846.5	4269.8	5693.1	7116.3

Lat.	Latitude 39° to 40°—Meridional arcs					Latitude 39°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 39°30'		Value of 1'	Continuous sums of minutes from latitude 39°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
39 00	30. 837			1850. 22			0 1	1 443. 8	0. 1
1	7	1	30. 84	. 23	1	1 850. 2	2	2 887. 6	0. 5
2	7	2	61. 68	. 23	2	3 700. 5	3	4 331. 4	1. 2
3	7	3	92. 52	. 24	3	5 550. 7	4	5 775. 2	2. 1
4	7	4	123. 36	. 24	4	7 400. 9			
39 05	30. 837	5	154. 20	1850. 25	5	9 251. 2	0 5	7 219. 0	3. 3
6	8	6	185. 04	. 25	6	11 101. 4	6	8 662. 9	4. 8
7	8	7	215. 88	. 26	7	12 951. 7	7	10 106. 7	6. 5
8	8	8	246. 72	. 26	8	14 801. 9	8	11 550. 5	8. 5
9	8	9	277. 56	. 27	9	16 652. 2	9	12 994. 3	10. 7
39 10	30. 838	10	308. 40	1850. 28	10	18 502. 5	0 10	14 438. 1	13. 2
11	8	1	339. 24	. 28	1	20 352. 8	15	21 657. 1	29. 7
12	8	2	370. 08	. 29	2	22 203. 0	20	28 876. 1	52. 9
13	8	3	400. 92	. 29	3	24 053. 3	25	36 095. 1	82. 6
14	8	4	431. 76	. 30	4	25 903. 6	30	43 314. 1	118. 9
39 15	30. 838	15	462. 60	1850. 30	15	27 753. 9	0 35	50 533. 0	161. 9
16	8	6	493. 44	. 31	6	29 604. 2	40	57 751. 9	211. 5
17	9	7	524. 28	. 31	7	31 454. 5	45	64 970. 7	267. 6
18	9	8	555. 11	. 32	8	33 304. 9	50	72 189. 5	330. 4
19	9	9	585. 95	. 32	9	35 155. 2	55	79 408. 2	399. 8
39 20	30. 839	20	616. 79	1850. 33	20	37 005. 5	1 00	86 626. 9	475. 8
21	9	1	647. 63	. 33	1	38 855. 8	05	93 845. 4	558. 4
22	9	2	678. 47	. 34	2	40 706. 2	10	101 063. 9	647. 6
23	9	3	709. 31	. 35	3	42 556. 5	15	108 282. 4	743. 4
24	9	4	740. 15	. 35	4	44 406. 9	20	115 500. 7	845. 8
39 25	30. 839	25	770. 99	1850. 36	25	46 257. 2	1 25	122 718. 9	954. 8
26	9	6	801. 83	. 36	6	48 107. 6	30	129 937. 1	1 070. 4
27	9	7	832. 67	. 37	7	49 957. 9	35	137 155. 1	1 192. 6
28	40	8	863. 51	. 37	8	51 808. 3	40	144 373. 0	1 321. 4
29	0	9	894. 35	. 38	9	53 658. 7	45	151 590. 8	1 456. 8
39 30	30. 840	30	925. 19	1850. 38	30	55 509. 1	1 50	158 808. 4	1 598. 8
31	0	1	956. 03	. 39	1	57 359. 4	55	166 025. 9	1 747. 5
32	0	2	986. 87	. 39	2	59 209. 8	2 00	173 243	1 903
33	0	3	1 017. 71	. 40	3	61 060. 2	3 00	259 839	4 281
34	0	4	1 048. 55	. 40	4	62 910. 6	4 00	346 403	7 611
39 35	30. 840	35	1 079. 39	1850. 41	35	64 761. 0	5 00	432 925	11 891
36	0	6	1 110. 23	. 42	6	66 611. 4	6 00	519 396	17 121
37	0	7	1 141. 07	. 42	7	68 461. 9	7 00	605 803	23 300
38	0	8	1 171. 91	. 43	8	70 312. 3	8 00	692 138	30 428
39	1	9	1 202. 75	. 43	9	72 162. 7	9 00	778 388	38 504
39 40	30. 841	40	1 233. 59	1850. 44	40	74 013. 2	10 00	864 545	47 527
41	1	1	1 264. 43	. 44	1	75 863. 6	11 00	950 598	57 496
42	1	2	1 295. 27	. 45	2	77 714. 0	12 00	1 036 536	68 409
43	1	3	1 326. 11	. 45	3	79 564. 5	13 00	1 122 349	80 266
44	1	4	1 356. 95	. 46	4	81 414. 9	14 00	1 208 027	93 064
39 45	30. 841	45	1 387. 79	1850. 46	45	83 265. 4	15 00	1 293 559	106 802
46	1	6	1 418. 63	. 47	6	85 115. 9	16 00	1 378 934	121 479
47	1	7	1 449. 47	. 47	7	86 966. 3	17 00	1 464 144	137 093
48	1	8	1 480. 31	. 48	8	88 816. 8	18 00	1 549 177	153 642
49	1	9	1 511. 15	. 49	9	90 667. 3	19 00	1 634 023	171 124
39 50	30. 842	50	1 541. 99	1850. 49	50	92 517. 8	20 00	1 718 671	189 537
51	2	1	1 572. 83	. 50	1	94 368. 3	21 00	1 803 113	208 878
52	2	2	1 603. 67	. 50	2	96 218. 8	22 00	1 887 337	229 146
53	2	3	1 634. 50	. 51	3	98 069. 3	23 00	1 971 333	250 337
54	2	4	1 665. 34	. 51	4	99 919. 8	24 00	2 055 091	272 450
39 55	30. 842	55	1 696. 18	1850. 52	55	101 770. 3	25 00	2 138 602	295 481
56	2	6	1 727. 02	. 52	6	103 620. 8	26 00	2 221 854	319 429
57	2	7	1 757. 86	. 53	7	105 471. 4	27 00	2 304 838	344 289
58	2	8	1 788. 70	. 53	8	107 321. 9	28 00	2 387 545	370 059
59	2	9	1 819. 54	. 54	9	109 172. 4	29 00	2 469 963	396 736
39 60	30. 842	60	1 850. 38	1850. 54	60	111 023. 0	30 00	2 552 084	424 317

Latitude 40° to 41°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
40 00	23.721	47.44	71.16	94.88	118.61	142.33	166.05	189.77	213.49	1423.3	2846.5	4269.8	5693.1	7116.3
1	.715	.43	.15	.86	.58	.29	6.01	.72	.44	2.9	5.8	8.8	1.7	4.6
2	.710	.42	.13	.84	.55	.26	5.97	.68	.39	2.6	5.1	7.7	90.3	2.9
3	.704	.41	.11	.82	.52	.22	.93	.63	.33	2.2	4.5	6.7	88.9	11.1
4	.698	.40	.09	.79	.49	.19	.89	.58	.28	1.9	3.8	5.6	7.5	09.4
40 05	23.692	47.38	71.08	94.77	118.46	142.15	165.84	189.54	213.23	1421.5	2843.1	4264.6	5686.1	7107.7
6	.686	.37	.06	.75	.44	.12	.80	.49	.18	1.2	2.4	3.6	4.7	5.9
7	.681	.36	.04	.72	.41	.08	.76	.45	.13	0.8	1.7	2.5	3.4	4.2
8	.675	.35	.02	.70	.38	.05	.72	.40	.07	0.5	1.0	1.5	2.0	2.5
9	.669	.34	1.01	.68	.35	2.01	.68	.35	3.02	20.1	40.3	60.4	80.6	100.7
40 10	23.663	47.33	70.99	94.65	118.32	141.98	165.64	189.31	212.97	1419.8	2839.6	4259.4	5679.2	7099.0
11	.658	.32	.97	.63	.29	.95	.60	.26	.92	9.5	8.9	8.4	7.8	7.3
12	.652	.30	.96	.61	.26	.91	.56	.21	.87	9.1	8.2	7.3	6.4	5.5
13	.646	.29	.94	.58	.23	.88	.52	.17	.81	8.8	7.5	6.3	5.0	3.8
14	.640	.28	.92	.56	.20	.84	.48	.12	.76	8.4	6.8	5.2	3.6	2.0
40 15	23.634	47.27	70.90	94.54	118.18	141.81	165.44	189.07	212.71	1418.1	2836.1	4254.2	5672.2	7090.3
16	.629	.26	.89	.51	.15	.77	.40	9.03	.66	7.7	5.4	3.1	70.9	88.6
17	.623	.25	.87	.49	.12	.74	.36	8.98	.61	7.4	4.7	2.1	69.5	6.8
18	.617	.23	.85	.47	.09	.70	.32	.94	.55	7.0	4.0	1.1	8.1	5.1
19	.611	.22	.83	.44	.06	.67	.28	.89	.50	6.7	3.3	50.0	6.7	3.4
40 20	23.605	47.21	70.82	94.42	118.03	141.63	165.24	188.84	212.45	1416.3	2832.6	4249.0	5665.3	7081.6
21	.600	.20	.80	.40	8.00	.60	.20	.80	.40	6.0	1.9	7.9	3.9	79.9
22	.594	.19	.78	.37	7.97	.56	.16	.75	.34	5.6	1.2	6.9	2.5	8.1
23	.588	.18	.76	.35	.94	.53	.12	.70	.29	5.3	30.6	5.8	61.1	6.4
24	.582	.16	.75	.33	.91	.49	.08	.66	.24	4.9	29.9	4.8	59.7	4.6
40 25	23.576	47.15	70.73	94.31	117.89	141.46	165.03	188.61	212.18	1414.6	2829.2	4243.7	5658.3	7072.9
26	.570	.14	.71	.28	.85	.42	4.99	.56	.13	4.2	8.5	2.7	6.9	71.1
27	.565	.13	.69	.26	.83	.39	.95	.52	.08	3.9	7.8	1.6	5.5	69.4
28	.559	.12	.68	.24	.80	.35	.91	.47	2.03	3.5	7.1	40.6	4.1	7.7
29	.553	.10	.66	.21	.77	.32	.87	.42	1.97	3.2	6.4	39.5	2.7	5.9
40 30	23.547	47.09	70.64	94.19	117.74	141.28	164.83	188.38	211.92	1412.8	2825.7	4238.5	5651.3	7064.2
31	.541	.08	.62	.17	.71	.25	.79	.33	.87	2.5	5.0	7.4	49.9	2.4
32	.536	.07	.61	.14	.68	.21	.75	.28	.82	2.1	4.3	6.4	8.5	60.7
33	.530	.06	.59	.12	.65	.18	.71	.24	.76	1.8	3.6	5.3	7.1	58.9
34	.524	.05	.57	.10	.62	.14	.67	.19	.71	1.4	2.9	4.3	5.7	7.2
40 35	23.518	47.04	70.55	94.07	117.59	141.11	164.63	188.14	211.66	1411.1	2822.2	4233.2	5644.3	7055.4
36	.512	.02	.54	.05	.56	.07	.58	.10	.61	0.7	1.5	2.2	2.9	3.7
37	.506	.01	.52	.03	.53	.04	.54	.05	.56	0.4	0.8	1.1	1.5	1.9
38	.501	7.00	.50	4.00	.50	1.00	.50	8.00	.50	10.0	20.1	30.1	40.1	50.2
39	.495	6.99	.48	3.98	.47	0.97	.46	7.96	.45	09.7	19.4	29.0	38.7	48.4
40 40	23.489	46.98	70.47	93.96	117.44	140.93	164.42	187.91	211.40	1409.3	2818.7	4228.0	5637.3	7046.7
41	.483	.97	.45	.93	.41	.90	.38	.86	.35	9.0	8.0	6.9	5.9	4.9
42	.477	.95	.43	.91	.38	.86	.34	.82	.29	8.6	7.3	5.9	4.5	3.1
43	.471	.94	.41	.88	.35	.83	.30	.77	.24	8.3	6.5	4.8	3.1	41.4
44	.465	.93	.40	.86	.32	.79	.26	.72	.19	7.9	5.8	3.8	1.7	39.6
40 45	23.460	46.92	70.38	93.84	117.30	140.76	164.22	187.68	211.13	1407.6	2815.1	4222.7	5630.3	7037.9
46	.454	.91	.36	.81	.27	.72	.17	.63	.08	7.2	4.4	1.7	28.9	6.1
47	.448	.90	.34	.79	.24	.69	.13	.58	1.03	6.9	3.7	20.6	7.5	4.4
48	.442	.88	.33	.77	.21	.65	.09	.54	0.98	6.5	3.0	19.6	6.1	2.6
49	.436	.87	.31	.74	.18	.62	.05	.49	.92	6.2	2.3	8.5	4.7	30.8
40 50	23.430	46.86	70.29	93.72	117.15	140.58	164.01	187.44	210.87	1405.8	2811.6	4217.5	5623.3	7029.1
51	.424	.85	.27	.70	.12	.55	3.97	.40	.82	5.5	0.9	6.4	1.9	7.3
52	.419	.84	.26	.67	.09	.51	.93	.35	.77	5.1	10.2	5.3	20.4	5.6
53	.413	.83	.24	.65	.06	.48	.89	.30	.71	4.8	09.5	4.3	19.0	3.8
54	.407	.81	.22	.63	.03	.44	.85	.25	.66	4.4	8.8	3.2	7.6	2.0
40 55	23.401	46.80	70.20	93.60	117.01	140.41	163.81	187.21	210.61	1404.1	2808.1	4212.2	5616.2	7020.3
56	.395	.79	.18	.58	6.98	.37	.76	.16	.55	3.7	7.4	1.1	4.8	18.5
57	.389	.78	.17	.56	.95	.33	.72	.11	.50	3.3	6.7	10.0	3.4	6.7
58	.383	.77	.15	.53	.92	.30	.68	.07	.45	3.0	6.0	09.0	2.0	5.0
59	.377	.75	.13	.51	.89	.26	.64	7.02	.39	2.6	5.3	7.9	10.6	3.2
40 60	23.372	46.74	70.11	93.49	116.86	140.23	163.60	186.97	210.34	1402.3	2804.6	4206.9	5609.2	7011.5

Lat.	Latitude 40° to 41°—Meridional arcs						Latitude 40°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 40°30'		Value of 1'	Continuous sums of minutes from latitude 40°00'		Longitude	X	Y
		Meters	''		Meters	Meters			
40 00	30.842			1850.54			0 1	1 423.3	0.1
1	2	1	30.85	.55	1	1 850.5	0 2	2 846.5	0.5
2	3	2	61.69	.56	2	3 701.1	0 3	4 269.8	1.2
3	3	3	92.54	.56	3	5 551.7	0 4	5 693.0	2.1
4	3	4	123.38	.57	4	7 402.2			
40 05	30.843	5	154.23	1850.57	5	9 252.8	0 5	7 116.3	3.3
6	3	6	185.07	.58	6	11 103.4	0 6	8 539.6	4.8
7	3	7	215.92	.58	7	12 953.9	0 7	9 962.8	6.5
8	3	8	246.76	.59	8	14 804.5	0 8	11 386.1	8.5
9	3	9	277.61	.59	9	16 655.1	0 9	12 809.3	10.8
40 10	30.843	10	308.45	1850.60	10	18 505.7	0 10	14 232.6	13.3
11	3	1	339.30	.60	1	20 356.3	0 15	21 349.0	29.9
12	3	2	370.14	.61	2	22 206.9	0 20	28 465.3	53.2
13	4	3	400.99	.61	3	24 057.5	0 25	35 581.6	83.2
14	4	4	431.83	.62	4	25 908.2	0 30	42 697.8	119.8
40 15	30.844	15	462.68	1850.63	15	27 758.8	0 35	49 814.0	163.0
16	4	6	493.52	.63	6	29 609.4	0 40	56 930.2	212.9
17	4	7	524.37	.64	7	31 460.0	0 45	64 046.3	269.4
18	4	8	555.21	.64	8	33 310.7	0 50	71 162.4	332.6
19	4	9	586.06	.65	9	35 161.3	0 55	78 278.4	402.5
40 20	30.844	20	616.90	1850.65	20	37 012.0	1 00	85 394.3	479.0
21	4	1	647.75	.66	1	38 862.6	1 05	92 510.1	562.2
22	4	2	678.59	.66	2	40 713.3	1 10	99 625.9	652.0
23	4	3	709.44	.67	3	42 564.0	1 15	106 741.6	748.5
24	5	4	740.28	.67	4	44 414.6	1 20	113 857.2	851.6
40 25	30.845	25	771.13	1850.68	25	46 265.3	1 25	120 972.7	961.4
26	5	6	801.97	.68	6	48 116.0	1 30	128 088.1	1 077.8
27	5	7	832.82	.69	7	49 966.7	1 35	135 203.4	1 200.8
28	5	8	863.66	.70	8	51 817.4	1 40	142 318.5	1 330.5
29	5	9	894.51	.70	9	53 668.1	1 45	149 433.6	1 466.9
40 30	30.845	30	925.35	1850.71	30	55 518.8	1 50	156 548.5	1 609.9
31	5	1	956.20	.71	1	57 369.5	1 55	163 663.3	1 759.6
32	5	2	987.04	.72	2	59 220.2	2 00	170 778	1 916
33	5	3	1 017.89	.72	3	61 070.9	2 05	177 893	2 073
34	5	4	1 048.73	.73	4	62 921.6	2 10	185 008	2 230
40 35	30.846	35	1 079.58	1850.73	35	64 772.4	2 15	192 123	2 387
36	6	6	1 110.42	.74	6	66 623.1	2 20	199 238	2 544
37	6	7	1 141.27	.74	7	68 473.8	2 25	206 353	2 701
38	6	8	1 172.11	.75	8	70 324.6	2 30	213 468	2 858
39	6	9	1 202.96	.76	9	72 175.3	2 35	220 583	3 015
40 40	30.846	40	1 233.80	1850.76	40	74 026.1	2 40	227 698	3 172
41	6	1	1 264.65	.77	1	75 876.9	2 45	234 813	3 329
42	6	2	1 295.49	.77	2	77 727.6	2 50	241 928	3 486
43	6	3	1 326.34	.78	3	79 578.4	2 55	249 043	3 643
44	6	4	1 357.18	.78	4	81 429.2	3 00	256 158	3 800
40 45	30.846	45	1 388.03	1850.79	45	83 280.0	3 05	263 273	3 957
46	7	6	1 418.88	.79	6	85 130.8	3 10	270 388	4 114
47	7	7	1 449.72	.80	7	86 981.6	3 15	277 503	4 271
48	7	8	1 480.57	.80	8	88 832.4	3 20	284 618	4 428
49	7	9	1 511.41	.81	9	90 683.2	3 25	291 733	4 585
40 50	30.847	50	1 542.26	1850.81	50	92 534.0	3 30	298 848	4 742
51	7	1	1 573.10	.82	1	94 384.8	3 35	305 963	4 899
52	7	2	1 603.95	.83	2	96 235.6	3 40	313 078	5 056
53	7	3	1 634.79	.83	3	98 086.5	3 45	320 193	5 213
54	7	4	1 665.64	.84	4	99 937.3	3 50	327 308	5 370
40 55	30.847	55	1 696.48	1850.84	55	101 788.1	3 55	334 423	5 527
56	7	6	1 727.33	.85	6	103 639.0	4 00	341 538	5 684
57	8	7	1 758.17	.85	7	105 489.8	4 05	348 653	5 841
58	8	8	1 789.02	.86	8	107 340.7	4 10	355 768	6 000
59	8	9	1 819.86	.86	9	109 191.5	4 15	362 883	6 157
40 60	30.848	60	1 850.71	1850.87	60	111 042.4	4 20	370 000	6 314

Latitude 41° to 42°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
41 00	23.372	46.74	70.11	93.49	116.86	140.23	163.60	186.97	210.34	1402.3	2804.6	4206.9	5609.2	7011.5
1	.366	.73	.10	.46	.83	.19	.56	.92	.29	1.9	3.9	5.8	7.7	009.7
2	.360	.72	.08	.44	.80	.16	.52	.88	.23	1.6	3.2	4.7	6.3	7.9
3	.354	.71	.06	.41	.77	.12	.48	.83	.18	1.2	2.4	3.7	4.9	6.1
4	.348	.70	.04	.39	.74	.09	.44	.78	.13	0.9	1.7	2.6	3.5	4.4
41 05	23.342	46.68	70.03	93.37	116.71	140.05	163.39	186.74	210.08	1400.5	2801.0	4201.6	5602.1	7002.6
6	.336	.67	70.01	.34	.68	40.02	.35	.69	10.02	400.2	800.3	200.5	600.7	7000.8
7	.330	.66	69.99	.32	.65	39.98	.31	.64	09.97	399.8	799.6	199.4	599.2	6999.1
8	.324	.65	.97	.30	.62	.95	.27	.59	.92	9.5	8.9	8.4	7.8	7.3
9	.318	.64	.96	.27	.59	.91	.23	.55	.86	9.1	8.2	7.3	6.4	5.5
41 10	23.313	46.63	69.94	93.25	116.56	139.88	163.19	186.50	209.81	1398.8	2797.5	4196.3	5595.0	6993.8
11	.307	.61	.92	.23	.53	.84	.15	.45	.76	8.4	6.8	5.2	3.6	2.0
12	.301	.60	.90	.20	.50	.80	.11	.41	.71	8.0	6.1	4.1	2.2	90.2
13	.295	.59	.88	.18	.47	.77	.06	.36	.65	7.7	5.4	3.1	90.7	88.4
14	.289	.58	.87	.16	.44	.73	3.02	.31	.60	7.3	4.7	2.0	89.3	6.7
41 15	23.283	46.57	69.85	93.13	116.42	139.70	162.98	186.26	209.54	1397.0	2794.0	4190.9	5587.9	6984.9
16	.277	.55	.83	.11	.39	.66	.94	.22	.49	6.6	3.3	89.9	6.5	3.1
17	.271	.54	.81	.08	.36	.63	.90	.17	.44	6.3	2.5	8.8	5.0	81.3
18	.265	.53	.80	.06	.33	.59	.86	.12	.39	5.9	1.8	7.7	3.6	79.6
19	.259	.52	.78	.04	.30	.56	.81	.07	.33	5.6	1.1	6.7	2.2	7.8
41 20	23.253	46.51	69.76	93.01	116.27	139.52	162.77	186.03	209.28	1395.2	2790.4	4185.6	5580.8	6976.0
21	.247	.49	.74	2.99	.23	.48	.72	5.97	.22	4.8	89.7	4.5	79.4	4.2
22	.241	.48	.72	.97	.21	.45	.69	.93	.17	4.5	9.0	3.5	8.0	2.4
23	.236	.47	.71	.94	.18	.41	.65	.88	.12	4.1	8.2	2.4	6.5	70.7
24	.230	.46	.69	.92	.15	.38	.61	.84	.07	3.8	7.5	1.3	5.1	68.9
41 25	23.224	46.45	69.67	92.89	116.12	139.34	162.56	185.79	209.01	1393.4	2786.8	4180.3	5573.7	6967.1
26	.218	.44	.65	.87	.09	.31	.52	.74	8.96	3.1	6.1	79.2	2.3	5.3
27	.212	.42	.63	.85	.06	.27	.48	.69	.91	2.7	5.4	8.1	70.8	3.5
28	.206	.41	.62	.82	.03	.24	.44	.65	.85	2.4	4.7	7.1	69.4	1.8
29	.200	.40	.60	.80	6.00	.20	.40	.60	.80	2.0	4.0	6.0	8.0	60.0
41 30	23.194	46.39	69.58	92.78	115.97	139.16	162.36	185.55	208.75	1391.6	2783.3	4174.9	5566.6	6958.2
31	.188	.38	.56	.75	.94	.13	.32	.50	.69	1.3	2.6	3.8	5.1	6.4
32	.182	.36	.55	.73	.91	.09	.28	.46	.64	0.9	1.9	2.8	3.7	4.6
33	.176	.35	.53	.70	.88	.06	.23	.41	.58	0.6	1.1	1.7	2.3	2.8
34	.170	.34	.51	.68	.85	9.02	.19	.36	.53	90.2	80.4	70.7	60.8	51.1
41 35	23.164	46.33	69.49	92.66	115.82	138.99	162.15	185.31	208.48	1389.9	2779.7	4169.6	5559.4	6949.3
36	.158	.32	.47	.63	.79	.95	.11	.27	.43	9.5	9.0	8.5	8.0	7.5
37	.152	.30	.46	.61	.76	.91	.07	.22	.37	9.1	8.3	7.4	6.6	5.7
38	.146	.29	.44	.59	.73	.88	2.02	.17	.32	8.8	7.5	6.3	5.1	3.9
39	.140	.28	.42	.56	.70	.84	1.98	.12	.26	8.4	6.8	5.3	3.7	2.1
41 40	23.134	46.27	69.40	92.54	115.67	138.81	161.94	185.08	208.21	1388.1	2776.1	4164.2	5552.3	6940.3
41	.128	.26	.38	.51	.64	.77	.90	5.03	.16	7.7	5.4	3.1	50.8	38.5
42	.122	.24	.37	.49	.61	.73	.86	4.98	.10	7.3	4.7	2.0	49.4	6.7
43	.117	.23	.35	.47	.58	.70	.82	.93	8.05	7.0	4.0	61.0	8.0	5.0
44	.111	.22	.33	.44	.55	.66	.77	.88	7.99	6.6	3.2	59.9	6.5	3.2
41 45	23.105	46.21	69.31	92.42	115.52	138.63	161.73	184.84	207.94	1386.3	2772.5	4158.8	5545.1	6931.4
46	.099	.20	.30	.39	.49	.59	.69	.79	.89	5.9	1.8	7.7	3.7	29.6
47	.093	.19	.28	.37	.46	.56	.65	.74	.83	5.6	1.1	6.7	2.2	7.8
48	.087	.17	.26	.35	.43	.52	.61	.69	.78	5.2	70.4	5.6	40.8	6.0
49	.081	.16	.24	.32	.40	.48	.56	.65	.72	4.8	69.7	4.5	39.4	4.2
41 50	23.075	46.15	69.22	92.30	115.37	138.45	161.52	184.60	207.67	1384.5	2769.0	4153.4	5537.9	6922.4
51	.069	.14	.21	.27	.34	.41	.48	.55	.62	4.1	8.3	2.4	6.5	20.6
52	.063	.13	.19	.25	.31	.38	.44	.50	.56	3.8	7.5	1.3	5.0	18.8
53	.057	.11	.17	.23	.28	.34	.40	.45	.51	3.4	6.8	50.2	3.6	7.0
54	.051	.10	.15	.20	.25	.30	.35	.41	.45	3.0	6.1	49.1	2.2	5.2
41 55	23.045	46.09	69.13	92.18	115.22	138.27	161.31	184.36	207.40	1382.7	2765.4	4148.0	5530.7	6913.4
56	.039	.08	.12	.16	.19	.23	.27	.31	.35	2.3	4.7	7.0	29.3	11.6
57	.033	.07	.10	.13	.16	.20	.23	.26	.29	2.0	3.9	5.9	7.8	09.8
58	.027	.05	.08	.11	.13	.16	.19	.21	.24	1.6	3.2	4.8	6.4	8.0
59	.021	.04	.06	.08	.10	.12	.14	.17	.18	1.2	2.5	3.7	5.0	6.2
41 60	23.015	46.03	69.04	92.06	115.07	138.09	161.10	184.12	207.13	1380.9	2761.8	4142.7	5523.5	6904.4

Lat.	Latitude 41° to 42°—Meridional arcs						Latitude 41°—Coordinates of curvature for the polyconic projection					
	Value of 1''		Sums of seconds for middle latitude 41°30'		Value of 1'		Continuous sums of minutes from latitude 41°00'		Longitude	X	Y	
	°	'	Meters	"	Meters	Meters	'	Meters	°	'	Meters	Meters
41	00		30.848			1850.87			0	1	1 402.3	0.1
	1	8		1	30.85	.87	1	1 850.9	0	2	2 804.6	0.5
	2	8		2	61.70	.88	2	3 701.7	3	3	4 206.9	1.2
	3	8		3	92.55	.89	3	5 552.6	4	4	5 609.2	2.1
	4	8		4	123.40	.89	4	7 403.5				
41	05		30.848			1850.90			0	5	7 011.5	3.3
	6	8		5	154.25	.90	5	9 254.4	6	6	8 413.7	4.8
	7	8		6	185.10	.91	6	11 105.3	7	7	9 816.0	6.6
	8	9		7	215.95	.91	7	12 956.2	8	8	11 218.3	8.6
	9	9		8	246.80	.92	8	14 807.1	9	9	12 620.6	10.8
				9	277.65	.92	9	16 658.0				
41	10		30.849			1850.92			0	10	14 022.9	13.4
	11	9		10	308.51	.93	10	18 509.0	15	15	21 034.3	30.1
	12	9		1	339.36	.93	1	20 359.9	20	20	28 045.7	53.5
	13	9		2	370.21	.94	2	22 210.8	25	25	35 057.1	83.6
	14	9		3	401.06	.95	3	24 061.8	30	30	42 068.5	120.4
				4	431.91	.95	4	25 912.7				
41	15		30.849			1850.95			0	35	49 079.8	163.9
	16	9		15	462.76	.96	15	27 763.7	40	40	56 091.1	214.1
	17	9		6	493.61	.96	6	29 614.6	45	45	63 102.3	270.9
	18	49		7	524.46	.97	7	31 465.6	50	50	70 113.5	334.5
	19	50		8	555.31	.97	8	33 316.5	55	55	77 124.6	404.7
				9	586.16	.97	9	35 167.5				
41	20		30.850			1850.98			1	00	84 135.6	481.7
	21	0		20	617.01	.98	20	37 018.5	05	05	91 146.6	565.3
	22	0		1	647.86	.99	1	38 869.5	10	10	98 157.4	655.6
	23	0		2	678.71	0.99	2	40 720.4	15	15	105 168.2	752.6
	24	0		3	709.56	1.00	3	42 571.4	20	20	112 178.9	856.3
				4	740.41	1.00	4	44 422.4				
41	25		30.850			1851.01			1	25	119 189.5	966.7
	26	0		25	771.26	.01	25	46 273.4	30	30	126 200.0	1 083.8
	27	0		6	802.11	.02	6	48 124.4	35	35	133 210.3	1 207.6
	28	0		7	832.96	.02	7	49 975.4	40	40	140 220.6	1 338.0
	29	0		8	863.82	.03	8	51 826.5	45	45	147 230.7	1 475.1
				9	894.67	.03	9	53 677.5				
41	30		30.851			1851.03			1	50	154 240.7	1 619.0
	31	1		30	925.52	.04	30	55 528.5	55	55	161 250.5	1 769.5
	32	1		1	956.37	.04	1	57 379.6	2	00	168 260	1 927
	33	1		2	987.22	.05	2	59 230.6	3	00	252 363	4 335
	34	1		3	1 018.07	.05	3	61 081.6	4	00	336 432	7 706
				4	1 048.92	.05	4	62 932.7				
41	35		30.851			1851.06			5	00	420 457	12 039
	36	1		35	1 079.77	.07	35	64 783.8	6	00	504 428	17 335
	37	1		6	1 110.62	.07	6	66 634.8	7	00	588 332	23 591
	38	1		7	1 141.47	.08	7	68 485.9	8	00	672 159	30 807
	39	1		8	1 172.32	.08	8	70 337.0	9	00	755 897	38 983
				9	1 203.17	.08	9	72 188.0				
41	40		30.851			1851.09			10	00	839 537	48 118
	41	2		40	1 234.02	.09	40	74 039.1	11	00	923 067	58 209
	42	2		1	1 264.87	.10	1	75 890.2	12	00	1 006 475	69 256
	43	2		2	1 295.72	.10	2	77 741.3	13	00	1 089 752	81 258
	44	2		3	1 326.57	.11	3	79 592.4	14	00	1 172 886	94 212
				4	1 357.42	.11	4	81 443.5				
41	45		30.852			1851.11			15	00	1 255 866	108 117
	46	2		45	1 388.27	.12	45	83 294.6	16	00	1 338 681	122 971
	47	2		6	1 419.12	.12	6	85 145.7	17	00	1 421 321	138 773
	48	2		7	1 449.98	.13	7	86 996.9	18	00	1 503 775	155 520
	49	2		8	1 480.83	.14	8	88 848.0	19	00	1 586 051	173 210
				9	1 511.68	.14	9	90 699.1				
41	50		30.852			1851.14			20	00	1 668 073	191 841
	51	2		50	1 542.53	.15	50	92 550.3	21	00	1 749 909	211 409
	52	3		1	1 573.38	.15	1	94 401.4	22	00	1 831 509	231 914
	53	3		2	1 604.23	.16	2	96 252.5	23	00	1 912 869	253 352
	54	3		3	1 635.08	.16	3	98 103.7	24	00	1 993 978	275 719
				4	1 665.93	.16	4	99 954.9				
41	55		30.853			1851.17			25	00	2 074 826	299 014
	56	3		55	1 696.78	.17	55	101 806.0	26	00	2 155 402	323 233
	57	3		6	1 727.63	.18	6	103 657.2	27	00	2 235 695	348 374
	58	3		7	1 758.48	.18	7	105 508.4	28	00	2 315 695	374 432
	59	3		8	1 789.33	.19	8	107 359.6	29	00	2 395 392	401 404
				9	1 820.18	.19	9	109 210.7	30	00	2 474 774	429 287
41	60		30.853			1851.20			30	00		
				60	1 851.03	1851.20	60	111 061.9				

Latitude 42° to 43°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
42 00	23.015	46.03	69.04	92.06	115.07	138.09	161.10	184.12	207.13	1380.9	2761.8	4142.7	5523.5	6904.4
1	.009	.02	.03	.04	.04	.05	.06	.07	.08	0.5	1.1	1.6	2.1	2.6
2	.003	6.01	9.01	2.01	5.01	8.02	1.02	4.02	7.02	0.2	60.4	40.5	20.6	900.8
3	2.997	5.99	8.99	1.99	4.98	7.98	0.98	3.97	6.97	79.8	59.6	39.4	19.2	899.0
4	.991	.98	.97	.96	.95	.94	.93	.93	.91	9.4	8.9	8.3	7.8	7.2
42 05	22.985	45.97	68.95	91.94	114.92	137.91	160.89	183.88	206.86	1379.1	2758.2	4137.2	5516.3	6895.4
6	.979	.96	.94	.92	.89	.87	.85	.83	.81	8.7	7.5	6.2	4.9	3.6
7	.973	.95	.92	.89	.86	.84	.81	.78	.75	8.4	6.7	5.1	3.4	1.8
8	.967	.93	.90	.87	.83	.80	.76	.73	.70	8.0	6.0	4.0	2.0	90.0
9	.961	.92	.88	.84	.80	.76	.72	.68	.64	7.6	5.2	2.9	10.5	88.2
42 10	22.955	45.91	68.86	91.82	114.77	137.73	160.68	183.64	206.59	1377.3	2754.5	4131.8	5509.1	6886.4
11	.949	.90	.85	.79	.74	.69	.64	.59	.54	6.9	3.8	30.7	7.6	4.6
12	.942	.88	.83	.77	.71	.65	.60	.54	.48	6.5	3.1	29.6	6.2	2.7
13	.936	.87	.81	.75	.68	.62	.55	.49	.43	6.2	2.3	8.6	4.7	80.9
14	.930	.86	.79	.72	.65	.58	.51	.44	.37	5.8	1.6	7.5	3.3	79.1
42 15	22.924	45.85	68.77	91.70	114.62	137.55	160.47	183.40	206.32	1375.5	2750.9	4126.4	5501.9	6877.3
16	.918	.84	.75	.67	.59	.51	.43	.35	.27	5.1	50.2	5.3	500.4	5.5
17	.912	.82	.74	.65	.56	.47	.39	.30	.21	4.7	49.5	4.2	499.0	3.7
18	.906	.81	.72	.62	.53	.44	.34	.25	.16	4.4	8.7	3.1	7.5	1.9
19	.900	.80	.70	.60	.50	.40	.30	.20	.10	4.0	8.0	2.0	6.1	70.1
42 20	22.894	45.79	68.68	91.58	114.47	137.37	160.26	183.15	206.05	1373.7	2747.3	4121.0	5494.6	6868.3
21	.888	.78	.66	.55	.44	.33	.22	.11	6.00	3.3	6.6	19.9	3.2	6.4
22	.882	.76	.65	.53	.41	.29	.18	.06	5.94	2.9	5.9	8.8	1.7	4.6
23	.876	.75	.63	.50	.38	.26	.13	3.01	.89	2.6	5.1	7.7	90.2	2.8
24	.870	.74	.61	.48	.35	.22	.09	2.96	.83	2.2	4.4	6.6	88.8	61.0
42 25	22.864	45.73	68.59	91.46	114.32	137.18	160.05	182.91	205.78	1371.8	2743.7	4115.5	5487.3	6859.2
26	.858	.72	.57	.43	.29	.15	60.01	.86	.72	1.5	3.0	4.4	5.9	7.4
27	.852	.70	.56	.41	.26	.11	59.97	.81	.67	1.1	2.2	3.3	4.4	5.6
28	.846	.69	.54	.38	.23	.07	.92	.77	.61	0.7	1.5	2.2	3.0	3.7
29	.840	.68	.52	.36	.20	.04	.88	.72	.56	0.4	0.7	1.2	1.5	1.9
42 30	22.834	45.67	68.50	91.33	114.17	137.00	159.84	182.67	205.50	1370.0	2740.0	4110.1	5480.1	6850.1
31	.828	.66	.48	.31	.14	6.97	.80	.62	.45	69.7	39.3	99.0	78.6	48.3
32	.822	.64	.46	.29	.11	.93	.75	.57	.39	9.3	8.6	7.9	7.2	6.5
33	.815	.63	.45	.26	.08	.89	.71	.52	.34	8.9	7.8	6.8	5.7	4.6
34	.809	.62	.43	.24	.05	.86	.67	.48	.28	8.6	7.1	5.7	4.3	2.8
42 35	22.803	45.61	68.41	91.21	114.02	136.82	159.62	182.43	205.23	1368.2	2736.4	4104.6	5472.8	6841.0
36	.797	.59	.39	.19	3.99	.78	.58	.38	.17	7.8	5.7	3.5	71.3	39.2
37	.791	.58	.37	.17	.96	.75	.54	.33	.12	7.5	5.0	2.4	69.9	7.4
38	.785	.57	.36	.14	.93	.71	.50	.28	.07	7.1	4.2	1.3	8.4	5.5
39	.779	.56	.34	.12	.90	.67	.45	.23	5.01	6.7	3.5	100.2	7.0	3.7
42 40	22.773	45.55	68.32	91.09	113.87	136.64	159.41	182.18	204.96	1366.4	2732.8	4099.1	5465.5	6831.9
41	.767	.53	.30	.07	.84	.60	.37	.14	.90	6.0	2.0	8.0	4.0	30.1
42	.761	.52	.28	.04	.81	.56	.32	.09	.85	5.6	1.3	6.9	2.6	28.2
43	.755	.51	.26	1.02	.77	.53	.28	2.04	.79	5.3	30.6	5.8	61.1	6.4
44	.749	.50	.25	0.99	.75	.49	.24	1.99	.74	4.9	29.8	4.7	59.7	4.6
42 45	22.742	45.48	68.23	90.97	113.71	136.45	159.19	181.94	204.68	1364.5	2729.1	4093.6	5458.2	6822.7
46	.736	.47	.21	.95	.68	.42	.15	.89	.63	4.2	8.4	2.6	6.7	20.9
47	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.5	5.3	19.1
48	.724	.45	.17	.90	.62	.35	.07	.79	.52	3.5	6.9	90.4	3.8	7.3
49	.718	.44	.15	.87	.59	.31	9.02	.74	.46	3.1	6.1	89.3	2.3	5.4
42 50	22.712	45.42	68.14	90.85	113.56	136.27	158.98	181.70	204.41	1362.7	2725.4	4088.2	5450.9	6813.6
51	.706	.41	.12	.82	.53	.24	.94	.65	.36	2.4	4.7	7.1	49.4	11.8
52	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.0	6.0	7.9	09.9
53	.694	.39	.08	.77	.47	.16	.86	.55	.24	1.6	3.2	4.9	6.5	8.1
54	.688	.38	.06	.75	.44	.13	.81	.50	.19	1.3	2.5	3.8	5.0	6.3
42 55	22.681	45.36	68.04	90.73	113.40	136.09	158.77	181.45	204.14	1360.9	2721.8	4082.7	5443.5	6804.4
56	.675	.35	.03	.70	.38	.05	.73	.40	.08	0.5	1.1	1.6	2.1	2.6
57	.669	.34	8.01	.68	.35	6.02	.69	.35	4.02	60.2	20.3	80.5	40.6	800.8
58	.663	.33	7.99	.65	.31	5.98	.64	.30	3.96	59.8	19.6	79.4	39.1	798.9
59	.657	.31	.97	.63	.28	.94	.60	.26	.91	9.4	8.8	8.3	7.7	7.1
42 60	22.651	45.30	67.95	90.60	113.25	135.91	158.56	181.21	203.86	1359.1	2718.1	4077.2	5436.2	6795.3

Lat.	Latitude 42° to 43°—Meridional arcs						Latitude 42°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 42°30'		Value of 1'	Continuous sums of minutes from latitude 42°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
42 00	30.853			1851.20			0 1	1 380.9	0.1
1	3	1	30.86	.20	1	1 851.2	0 2	2 761.8	0.5
2	3	2	61.71	.21	2	3 702.4	0 3	4 142.7	1.2
3	4	3	92.57	.21	3	5 553.6	0 4	5 523.5	2.2
4	4	4	123.42	.22	4	7 404.8			
42 05	30.854	5	154.28	1851.22	5	9 256.0	0 5	6 904.4	3.4
6	4	6	185.14	.23	6	11 107.3	0 6	8 285.3	4.8
7	4	7	215.99	.23	7	12 958.5	0 7	9 666.2	6.6
8	4	8	246.85	.24	8	14 809.7	0 8	11 047.1	8.6
9	4	9	277.70	.24	9	16 661.0	0 9	12 428.0	10.9
42 10	30.854	10	308.56	1851.25	10	18 512.2	0 10	13 808.8	13.4
11	4	1	339.42	.26	1	20 363.5	0 15	20 713.2	30.2
12	4	2	370.27	.26	2	22 214.7	0 20	27 617.6	53.8
13	4	3	401.13	.27	3	24 066.0	0 25	34 522.0	84.0
14	5	4	431.98	.27	4	25 917.3	0 30	41 426.3	120.9
42 15	30.855	15	462.84	1851.28	15	27 768.5	0 35	48 330.6	164.6
16	5	6	493.70	.28	6	29 619.8	0 40	55 234.8	215.0
17	5	7	524.55	.29	7	31 471.1	0 45	62 139.0	272.1
18	5	8	555.41	.29	8	33 322.4	0 50	69 043.1	336.0
19	5	9	586.26	.30	9	35 173.7	0 55	75 947.2	406.5
42 20	30.855	20	617.12	1851.30	20	37 025.0	1 00	82 851.2	483.8
21	5	1	647.98	.31	1	38 876.3	1 05	89 755.1	567.8
22	5	2	678.83	.32	2	40 727.6	1 10	96 658.9	658.5
23	5	3	709.69	.32	3	42 578.9	1 15	103 562.6	755.9
24	5	4	740.54	.33	4	44 430.3	1 20	110 466.3	860.1
42 25	30.856	25	771.40	1851.33	25	46 281.6	1 25	117 369.8	971.0
26	6	6	802.26	.34	6	48 132.9	1 30	124 273.2	1 088.5
27	6	7	833.11	.34	7	49 984.3	1 35	131 176.5	1 212.8
28	6	8	863.97	.35	8	51 835.6	1 40	138 079.7	1 343.8
29	6	9	894.82	.35	9	53 686.9	1 45	144 982.7	1 481.6
42 30	30.856	30	925.68	1851.36	30	55 538.3	1 50	151 885.6	1 626.1
31	6	1	956.54	.37	1	57 389.7	1 55	158 788.4	1 777.2
32	6	2	987.39	.37	2	59 241.0	2 00	165 691.	1 935
33	6	3	1 018.25	.38	3	61 092.4	2 05	172 594.	2 100
34	6	4	1 049.10	.38	4	62 943.8	2 10	179 497.	2 275
42 35	30.856	35	1 079.96	1851.39	35	64 795.2	5 00	414 030	12 092
36	7	6	1 110.82	.39	6	66 646.6	6 00	496 712	17 410
37	7	7	1 141.67	.40	7	68 498.0	7 00	579 325	23 693
38	7	8	1 172.53	.40	8	70 349.4	8 00	661 861	30 941
39	7	9	1 203.38	.41	9	72 200.8	9 00	744 305	39 152
42 40	30.857	40	1 234.24	1851.41	40	74 052.2	10 00	826 648	48 325
41	7	1	1 265.10	.42	1	75 903.6	11 00	908 879	58 459
42	7	2	1 295.95	.43	2	77 755.0	12 00	990 985	69 553
43	7	3	1 326.81	.43	3	79 606.4	13 00	1 072 956	81 605
44	7	4	1 357.66	.44	4	81 457.9	14 00	1 154 781	94 614
42 45	30.857	45	1 388.52	1851.44	45	83 309.3	15 00	1 236 449	108 577
46	7	6	1 419.38	.45	6	85 160.8	16 00	1 317 948	123 493
47	8	7	1 450.23	.45	7	87 012.2	17 00	1 399 267	139 360
48	8	8	1 481.09	.46	8	88 863.7	18 00	1 480 395	156 175
49	8	9	1 511.94	.46	9	90 715.1	19 00	1 561 321	173 937
42 50	30.858	50	1 542.80	1851.47	50	92 566.6	20 00	1 642 035	192 642
51	8	1	1 573.66	.47	1	94 418.1	21 00	1 722 524	212 289
52	8	2	1 604.51	.48	2	96 269.5	22 00	1 802 779	232 874
53	8	3	1 635.37	.49	3	98 121.0	23 00	1 882 788	254 396
54	8	4	1 666.22	.49	4	99 972.5	24 00	1 962 540	276 850
42 55	30.858	55	1 697.08	1851.50	55	101 824.0	25 00	2 042 024	300 234
56	8	6	1 727.94	.50	6	103 675.5	26 00	2 121 230	324 544
57	8	7	1 758.79	.51	7	105 527.0	27 00	2 200 146	349 778
58	9	8	1 789.65	.51	8	107 378.5	28 00	2 278 762	375 932
59	9	9	1 820.50	.52	9	109 230.0	29 00	2 357 067	403 002
42 60	30.859	60	1 851.36	1851.52	60	111 081.6	30 00	2 435 052	430 985

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 43° to 44°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
43 00	22.651	45.30	67.95	90.60	113.25	135.91	158.56	181.21	203.86	1359.1	2718.1	4077.2	5436.2	6795.3
1	.645	.29	.93	.58	.22	.87	.52	.16	.81	8.7	7.4	6.1	4.7	3.4
2	.639	.28	.92	.55	.19	.83	.47	.11	.75	8.3	6.6	5.0	3.3	91.6
3	.632	.26	.90	.53	.16	.79	.43	.06	.69	7.9	5.9	3.8	1.8	89.7
4	.626	.25	.88	.50	.13	.76	.39	1.01	.64	7.6	5.1	2.7	30.3	7.9
43 05	22.620	45.24	67.86	90.48	113.10	135.72	158.34	180.96	203.58	1357.2	2714.4	4071.6	5428.9	6786.1
6	.614	.23	.84	.46	.07	.68	.30	.91	.53	6.8	3.7	70.5	7.4	4.2
7	.608	.22	.82	.43	.04	.65	.26	.86	.47	6.5	3.0	69.4	5.9	2.4
8	.602	.20	.81	.41	3.01	.61	.22	.81	.42	6.1	2.2	8.3	4.4	80.6
9	.596	.19	.79	.38	2.98	.57	.17	.77	.36	5.7	1.5	7.2	3.0	78.7
43 10	22.590	45.18	67.77	90.36	112.95	135.54	158.13	180.72	203.31	1355.4	2710.8	4066.1	5421.5	6776.9
11	.583	.17	.75	.34	.92	.50	.09	.67	.25	5.0	10.1	5.0	20.0	5.0
12	.577	.15	.73	.31	.89	.46	.04	.62	.19	4.6	09.3	3.9	18.5	3.2
13	.571	.14	.71	.29	.86	.43	8.00	.57	.14	4.3	8.6	2.8	7.1	71.3
14	.565	.13	.69	.26	.83	.39	7.96	.52	.09	3.9	7.8	1.7	5.6	69.5
43 15	22.559	45.12	67.68	90.24	112.79	135.35	157.91	180.47	203.03	1353.5	2707.1	4060.6	5414.1	6767.6
16	.553	.11	.66	.21	.76	.32	.87	.42	2.97	3.2	6.3	59.5	2.6	5.8
17	.547	.09	.64	.19	.73	.28	.83	.37	.92	2.8	5.6	8.4	11.2	4.0
18	.540	.08	.62	.16	.70	.24	.79	.32	.86	2.4	4.9	7.3	09.7	2.1
19	.534	.07	.60	.14	.67	.21	.74	.27	.81	2.1	4.1	6.2	8.2	60.3
43 20	22.528	45.06	67.58	90.11	112.64	135.17	157.70	180.22	202.75	1351.7	2703.4	4055.1	5406.7	6758.4
21	.522	.04	.57	.09	.61	.13	.65	.18	.70	1.3	2.7	4.0	5.3	6.6
22	.516	.03	.55	.06	.58	.09	.61	.13	.64	0.9	1.9	2.8	3.8	4.7
23	.510	.02	.53	.04	.55	.06	.57	.08	.59	0.6	1.2	1.7	2.3	2.9
24	.503	5.01	.51	90.01	.52	5.02	.52	80.03	.53	50.2	700.4	50.6	400.8	51.0
43 25	22.497	44.99	67.49	89.99	112.49	134.98	157.48	179.98	202.48	1349.8	2699.7	4049.5	5399.3	6749.2
26	.491	.98	.47	.96	.45	.95	.44	.93	.42	9.5	8.9	8.4	7.8	7.3
27	.485	.97	.45	.94	.42	.91	.39	.88	.37	9.1	8.2	7.3	6.4	5.5
28	.479	.96	.44	.92	.39	.87	.35	.83	.31	8.7	7.5	6.2	4.9	3.6
29	.473	.95	.42	.89	.36	.84	.31	.78	.25	8.4	6.7	5.1	3.4	41.8
43 30	22.466	44.93	67.40	89.87	112.33	134.80	157.26	179.73	202.20	1348.0	2696.0	4043.9	5391.9	6739.9
31	.460	.92	.38	.84	.30	.76	.22	.68	.14	7.6	5.2	2.8	90.4	8.1
32	.454	.91	.36	.82	.27	.72	.18	.63	.09	7.2	4.5	1.7	89.0	6.2
33	.448	.90	.34	.79	.24	.69	.13	.58	2.03	6.9	3.8	40.6	7.5	4.3
34	.442	.88	.32	.77	.21	.65	.09	.53	1.98	6.5	3.0	39.5	6.0	2.5
43 35	22.435	44.87	67.31	89.74	112.18	134.61	157.05	179.48	201.92	1346.1	2692.3	4038.4	5384.5	6730.6
36	.429	.86	.29	.72	.14	.58	7.01	.43	.86	5.8	1.5	7.3	3.0	28.8
37	.423	.85	.27	.69	.11	.54	6.96	.38	.81	5.4	0.8	6.1	1.5	6.9
38	.417	.83	.25	.67	.08	.50	.92	.34	.75	5.0	90.0	5.0	80.0	5.1
39	.411	.82	.23	.64	.05	.46	.87	.29	.70	4.6	89.3	3.9	78.6	3.2
43 40	22.404	44.81	67.21	89.62	112.02	134.43	156.83	179.24	201.64	1344.3	2688.5	4032.8	5377.1	6721.3
41	.398	.80	.19	.59	1.99	.39	.79	.19	.58	3.9	7.8	1.7	5.6	19.5
42	.392	.78	.18	.57	.96	.35	.74	.14	.53	3.5	7.0	30.6	4.1	7.6
43	.386	.77	.16	.54	.93	.32	.70	.09	.47	3.2	6.3	29.5	2.6	5.8
44	.380	.76	.14	.52	.90	.28	.66	9.04	.42	2.8	5.5	8.3	71.1	3.9
43 45	22.373	44.75	67.12	89.49	111.87	134.24	156.61	178.99	201.36	1342.4	2684.8	4027.2	5369.6	6712.0
46	.367	.73	.10	.47	.83	.20	.57	.94	.30	2.0	4.1	6.1	8.1	10.2
47	.361	.72	.08	.44	.80	.17	.53	.89	.25	1.7	3.3	5.0	6.6	08.3
48	.355	.71	.06	.42	.77	.13	.49	.84	.19	1.3	2.6	3.9	5.2	6.4
49	.349	.70	.05	.39	.74	.09	.44	.79	.14	0.9	1.8	2.7	3.7	4.6
43 50	22.342	44.68	67.03	89.37	111.71	134.05	156.40	178.74	201.08	1340.5	2681.1	4021.6	5362.2	6702.7
51	.336	.67	7.01	.35	.68	4.02	.36	.69	1.03	40.3	80.3	20.5	60.7	700.9
52	.330	.66	6.99	.32	.65	3.98	.31	.64	0.97	39.8	79.6	19.4	59.2	6699.0
53	.324	.65	.97	.29	.62	.94	.27	.59	.91	9.4	8.9	8.3	7.7	7.1
54	.318	.64	.95	.27	.59	.91	.22	.54	.86	9.1	8.1	7.2	6.2	5.3
43 55	22.311	44.62	66.93	89.25	111.56	133.87	156.18	178.49	200.80	1338.7	2677.4	4016.0	5354.7	6693.4
56	.305	.61	.92	.22	.52	.83	.14	.44	.74	8.3	6.6	4.9	3.2	91.5
57	.299	.60	.90	.20	.49	.79	.09	.39	.69	7.9	5.9	3.8	1.7	89.6
58	.293	.59	.88	.17	.46	.76	.05	.34	.63	7.6	5.1	2.7	50.2	7.8
59	.286	.57	.86	.15	.43	.72	6.00	.29	.58	7.2	4.4	1.5	48.7	5.9
43 60	22.280	44.56	66.84	89.12	111.40	133.68	155.96	178.24	200.52	1336.8	2673.6	4010.4	5347.2	6684.0

TERRESTRIAL ARCS

Lat.	Latitude 43° to 44°—Meridional arcs						Latitude 43°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 43°30'		Value of 1'	Continuous sums of minutes from latitude 43°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
43 00	30.859			1851.52			0 1	1 359.1	0.1
1	9	1	30.86	.53	1	1 851.5	0 2	2 718.1	0.5
2	9	2	61.72	.53	2	3 703.1	0 3	4 077.2	1.2
3	9	3	92.58	.54	3	5 554.6	0 4	5 436.2	2.2
4	9	4	123.45	.55	4	7 406.1			
43 05	30.859	5	154.31	1851.55	5	9 257.7	0 5	6 795.3	3.4
6	9	6	185.17	.56	6	11 109.2	0 6	8 154.3	4.9
7	9	7	216.03	.56	7	12 960.8	0 7	9 513.4	6.6
8	59	8	246.89	.57	8	14 812.4	0 8	10 872.4	8.6
9	60	9	277.75	.57	9	16 663.9		12 231.5	10.9
43 10	30.860	10	308.61	1851.58	10	18 515.5	0 10	13 590.5	13.5
11	0	1	339.48	.58	1	20 367.1	0 15	20 385.8	30.3
12	0	2	370.34	.59	2	22 218.7	0 20	27 181.0	53.9
13	0	3	401.20	.59	3	24 070.3	0 25	33 976.2	84.3
14	0	4	432.06	.60	4	25 921.9	0 30	40 771.4	121.3
43 15	30.860	15	462.92	1851.61	15	27 773.5	0 35	47 566.5	165.1
16	0	6	493.78	.61	6	29 625.1	0 40	54 361.6	215.7
17	0	7	524.64	.62	7	31 476.7	0 45	61 156.7	273.0
18	0	8	555.51	.62	8	33 328.3	0 50	67 951.6	337.0
19	0	9	586.37	.63	9	35 179.9	0 55	74 746.5	407.8
43 20	30.861	20	617.23	1851.63	20	37 031.6	1 00	81 541.3	485.3
21	1	1	648.09	.64	1	38 883.2	05	88 336.1	569.6
22	1	2	678.95	.64	2	40 734.8	10	95 130.7	660.5
23	1	3	709.81	.65	3	42 586.5	15	101 925.3	758.3
24	1	4	740.68	.65	4	44 438.1	20	108 719.8	862.8
43 25	30.861	25	771.54	1851.66	25	46 289.8	1 25	115 514.2	974.0
26	1	6	802.40	.67	6	48 141.4	30	122 308.4	1 091.9
27	1	7	833.26	.67	7	49 993.1	35	129 102.5	1 216.6
38	1	8	864.12	.68	8	51 844.8	40	135 896.5	1 348.0
29	1	9	894.98	.68	9	53 696.5	45	142 690.4	1 486.2
43 30	30.861	30	925.84	1851.69	30	55 548.2	1 50	149 484.1	1 631.1
31	2	1	956.71	.69	1	57 399.9	55	156 277.7	1 782.8
32	2	2	987.57	.70	2	59 251.6	2 00	163 071	1 941
33	2	3	1 018.43	.70	3	61 103.3	3 00	244 573	4 367
34	2	4	1 049.29	.71	4	62 955.0	4 00	326 050	7 763
43 35	30.862	35	1 080.15	1851.72	35	64 806.7	5 00	407 476	12 129
36	2	6	1 111.01	.72	6	66 658.4	6 00	488 844	17 464
37	2	7	1 141.87	.73	7	68 510.1	7 00	570 143	23 766
38	2	8	1 172.74	.73	8	70 361.9	8 00	651 361	31 036
39	2	9	1 203.60	.74	9	72 213.6	9 00	732 486	39 272
43 40	30.862	40	1 234.46	1851.74	40	74 065.3	10 00	813 508	48 474
41	2	1	1 265.32	.75	1	75 917.1	11 00	894 415	58 639
42	3	2	1 296.18	.75	2	77 768.8	12 00	975 195	69 766
43	3	3	1 327.04	.76	3	79 620.5	13 00	1 055 837	81 854
44	3	4	1 357.90	.76	4	81 472.3	14 00	1 136 329	94 901
43 45	30.863	45	1 388.77	1851.77	45	83 324.1	15 00	1 216 661	108 905
46	3	6	1 419.63	.78	6	85 175.8	16 00	1 296 820	123 864
47	3	7	1 450.49	.78	7	87 027.6	17 00	1 376 795	139 777
48	3	8	1 481.35	.79	8	88 879.4	18 00	1 456 575	156 640
49	3	9	1 512.21	.79	9	90 731.2	19 00	1 536 148	174 451
43 50	30.863	50	1 543.07	1851.80	50	92 583.0	20 00	1 615 505	193 209
51	3	1	1 573.93	.80	1	94 434.8	21 00	1 694 632	212 909
52	3	2	1 604.80	.81	2	96 286.6	22 00	1 773 519	233 551
53	4	3	1 635.66	.81	3	98 138.4	23 00	1 852 155	255 129
54	4	4	1 666.52	.82	4	99 990.3	24 00	1 930 528	277 642
43 55	30.864	55	1 697.38	1851.82	55	101 842.1	25 00	2 008 628	301 087
56	4	6	1 728.24	.83	6	103 693.9	26 00	2 086 443	325 459
57	4	7	1 759.10	.84	7	105 545.7	27 00	2 163 963	350 756
58	4	8	1 789.96	.84	8	107 397.6	28 00	2 241 176	376 974
59	4	9	1 820.83	.85	9	109 249.4	29 00	2 318 071	404 109
43 60	30.864	60	1 851.69	1851.85	60	111 101.3	30 00	2 394 639	432 157

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 44° to 45°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
44 00	22.280	44.56	66.84	89.12	111.40	133.68	155.96	178.24	200.52	1336.8	2673.6	4010.4	5347.2	6684.0
1	.274	.55	.82	.10	.37	.64	.92	.19	.46	6.4	2.9	09.3	5.7	2.2
2	.268	.54	.80	.07	.34	.61	.87	.14	.41	6.1	2.1	8.2	4.2	80.3
3	.261	.52	.78	.05	.31	.57	.83	.09	.35	5.7	1.4	7.0	2.7	78.4
4	.255	.51	.76	.02	.28	.53	.78	8.04	.30	5.3	70.6	5.9	41.2	6.5
44 05	22.249	44.50	66.75	89.00	111.24	133.49	155.74	177.99	200.24	1334.9	2669.9	4004.8	5339.7	6674.7
6	.243	.49	.73	8.97	.21	.46	.70	.94	.18	4.6	9.1	3.7	8.2	2.8
7	.236	.47	.71	.95	.18	.42	.65	.89	.13	4.2	8.4	2.6	6.7	70.9
8	.230	.46	.69	.92	.15	.38	.61	.84	.07	3.8	7.6	1.4	5.2	69.0
9	.224	.45	.67	.90	.13	.34	.57	.79	200.02	3.4	6.9	4000.3	3.7	7.2
44 10	22.218	44.44	66.65	88.87	111.09	133.31	155.52	177.74	199.96	1333.1	2666.1	3999.2	5332.2	6665.3
11	.211	.42	.63	.85	.06	.27	.48	.69	.90	2.7	5.4	8.1	30.7	3.4
12	.205	.41	.61	.82	.03	.23	.43	.64	.85	2.3	4.6	6.9	29.2	61.5
13	.199	.40	.60	.80	1.00	.19	.39	.59	.79	1.9	3.9	5.8	7.7	59.7
14	.193	.39	.58	.77	0.97	.16	.35	.54	.74	1.6	3.1	4.7	6.2	7.8
44 15	22.186	44.37	66.56	88.75	110.93	133.12	155.30	177.49	199.68	1331.2	2662.4	3993.5	5324.7	6655.9
16	.180	.36	.54	.72	.90	.08	.26	.44	.62	0.8	1.6	2.4	3.2	4.0
17	.174	.35	.52	.70	.87	.04	.22	.39	.57	0.4	0.9	1.3	1.7	2.1
18	.168	.34	.50	.67	.84	3.01	.18	.34	.51	30.1	60.1	90.2	20.2	50.3
19	.161	.32	.48	.65	.81	2.97	.13	.29	.45	29.7	59.4	89.0	18.7	48.4
44 20	22.155	44.31	66.47	88.62	110.78	132.93	155.09	177.24	199.40	1329.3	2658.6	3987.9	5317.2	6646.5
21	.149	.30	.45	.59	.74	.89	.04	.19	.34	8.9	7.8	6.8	5.7	4.6
22	.142	.28	.43	.57	.71	.85	5.00	.14	.28	8.5	7.1	5.6	4.2	2.7
23	.136	.27	.41	.54	.68	.82	4.96	.09	.23	8.2	6.3	4.5	2.7	40.8
24	.130	.26	.39	.52	.65	.78	.91	7.04	.17	7.8	5.6	3.4	11.2	39.0
44 25	22.124	44.25	66.37	88.49	110.62	132.74	154.87	176.99	199.11	1327.4	2654.8	3982.2	5309.7	6637.1
26	.117	.23	.35	.47	.59	.70	.82	.94	.06	7.0	4.1	1.1	8.2	5.2
27	.111	.22	.33	.44	.55	.67	.77	.89	9.00	6.7	3.3	80.0	6.6	3.3
28	.105	.21	.31	.42	.52	.63	.74	.84	8.94	6.3	2.6	78.9	5.1	31.4
29	.098	.20	.30	.39	.49	.59	.69	.79	.89	5.9	1.8	7.7	3.6	29.5
44 30	22.092	44.18	66.28	88.37	110.46	132.55	154.65	176.74	198.83	1325.5	2651.1	3976.6	5302.1	6627.7
31	.086	.17	.26	.34	.42	.52	.61	.69	.77	5.2	50.3	5.5	300.6	5.8
32	.080	.16	.24	.32	.40	.48	.56	.64	.72	4.8	49.6	4.3	299.1	3.9
33	.073	.15	.22	.29	.37	.44	.52	.59	.66	4.4	8.8	3.2	7.6	2.0
34	.067	.13	.20	.27	.34	.40	.47	.54	.60	4.0	8.1	2.0	6.1	20.1
44 35	22.061	44.12	66.18	88.24	110.30	132.36	154.43	176.49	198.55	1323.6	2647.3	3970.9	5294.6	6618.2
36	.054	.11	.16	.22	.27	.33	.38	.43	.49	3.3	6.5	69.8	3.0	6.3
37	.048	.10	.14	.19	.24	.29	.34	.38	.43	2.9	5.8	8.6	1.5	4.4
38	.042	.08	.13	.17	.21	.25	.29	.33	.37	2.5	5.0	7.5	90.0	2.5
39	.035	.07	.11	.14	.18	.21	.25	.28	.32	2.1	4.3	6.4	88.5	10.6
44 40	22.029	44.06	66.09	88.12	110.15	132.17	154.20	176.23	198.26	1321.7	2643.5	3965.2	5287.0	6608.7
41	.023	.04	.07	.09	.12	.14	.16	.18	.20	1.4	2.7	4.1	5.5	6.8
42	.016	.03	.05	.07	.09	.10	.11	.13	.15	1.0	2.0	3.0	4.0	4.9
43	.010	.02	.03	.04	.05	.06	.07	.08	.09	0.6	1.2	1.8	2.4	3.1
44	.004	.01	6.01	8.02	10.02	2.02	4.02	6.03	8.03	20.2	40.5	60.7	80.9	601.2
44 45	21.998	44.00	65.99	87.99	109.99	131.99	153.98	175.98	197.98	1319.9	2639.7	3959.6	5279.4	6599.3
46	.991	3.98	.97	.96	.96	.95	.94	.93	.92	9.5	8.9	8.4	7.9	7.4
47	.985	.97	.96	.94	.93	.91	.89	.88	.86	9.1	8.2	7.3	6.4	5.5
48	.979	.96	.94	.91	.89	.87	.85	.83	.80	8.7	7.4	6.1	4.9	3.6
49	.972	.95	.92	.89	.86	.83	.80	.78	.75	8.3	6.7	5.0	3.3	91.7
44 50	21.966	43.93	65.90	87.86	109.83	131.80	153.76	175.73	197.69	1318.0	2635.9	3953.9	5271.8	6589.8
51	.960	.92	.88	.84	.80	.76	.72	.68	.63	7.6	5.1	2.7	70.3	7.9
52	.953	.91	.86	.81	.77	.72	.67	.63	.58	7.2	4.4	1.6	68.8	6.0
53	.947	.89	.84	.79	.73	.68	.63	.58	.52	6.8	3.6	50.4	7.3	4.1
54	.941	.88	.82	.76	.70	.64	.58	.52	.46	6.4	2.9	49.3	5.7	2.2
44 55	21.934	43.87	65.80	87.74	109.67	131.61	153.54	175.47	197.41	1316.1	2632.1	3948.2	5264.2	6580.3
56	.928	.86	.78	.71	.64	.57	.50	.42	.35	5.7	1.3	7.0	2.7	78.4
57	.922	.84	.77	.69	.61	.53	.45	.37	.29	5.3	30.6	5.9	61.2	6.5
58	.915	.83	.75	.66	.57	.49	.41	.32	.23	4.9	29.8	4.7	59.6	4.6
59	.909	.82	.73	.64	.54	.45	.36	.27	.18	4.5	9.1	3.6	8.1	2.7
44 60	21.903	43.81	65.71	87.61	109.51	131.42	153.32	175.22	197.12	1314.2	2628.3	3942.5	5256.6	6570.8

Lat.	Latitude 44° to 45°—Meridional arcs					Latitude 44°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 44°30'		Value of 1'	Continuous sums of minutes from latitude 44°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
44 00	30.864			1851.85			0 1	1 336.8	0.1
1	4	1	30.87	.86	1	1 851.9	0 2	2 673.6	0.5
2	4	2	61.73	.86	2	3 703.7	0 3	4 010.4	1.2
3	4	3	92.60	.87	3	5 555.6	0 4	5 347.2	2.2
4	5	4	123.47	.87	4	7 407.4			
44 05	30.865	5	154.33	1851.88	5	9 259.3	0 5	6 684.0	3.4
6	5	6	185.20	.89	6	11 111.2	0 6	8 020.8	4.9
7	5	7	216.07	.89	7	12 963.1	0 7	9 357.7	6.6
8	5	8	246.94	.90	8	14 815.0	0 8	10 694.5	8.6
9	5	9	277.80	.90	9	16 666.9	0 9	12 031.3	10.9
44 10	30.865	10	308.67	1851.91	10	18 518.8	0 10	13 368.1	13.5
11	5	1	339.54	.91	1	20 370.7	0 15	20 052.1	30.4
12	5	2	370.40	.92	2	22 222.6	0 20	26 736.1	54.0
13	5	3	401.27	.92	3	24 074.5	0 25	33 420.1	84.4
14	5	4	432.14	.93	4	25 926.5	0 30	40 104.0	121.5
44 15	30.866	15	463.00	1851.93	15	27 778.4	0 35	46 787.9	165.4
16	6	6	493.87	.94	6	29 630.3	0 40	53 471.8	216.1
17	6	7	524.74	.95	7	31 482.3	0 45	60 155.6	273.5
18	6	8	555.61	.95	8	33 334.2	0 50	66 839.3	337.7
19	6	9	586.47	.96	9	35 186.2	0 55	73 523.0	408.6
44 20	30.866	20	617.34	1851.96	20	37 038.1	1 00	80 206.5	486.2
21	6	1	648.21	.97	1	38 890.1	1 05	86 890.0	570.6
22	6	2	679.07	.97	2	40 742.0	1 10	93 573.5	661.8
23	6	3	709.94	.98	3	42 594.0	1 15	100 256.8	759.7
24	6	4	740.81	.98	4	44 446.0	1 20	106 940.0	864.4
44 25	30.866	25	771.67	1851.99	25	46 298.0	1 25	113 623.1	975.8
26	7	6	802.54	1.99	6	48 150.0	1 30	120 306.1	1 094.0
27	7	7	833.41	2.00	7	50 002.0	1 35	126 989.0	1 218.9
28	7	8	864.27	.01	8	51 854.0	1 40	133 671.8	1 350.6
29	7	9	895.14	.01	9	53 706.0	1 45	140 354.4	1 489.0
44 30	30.867	30	926.01	1852.02	30	55 558.0	1 50	147 036.8	1 634.2
31	7	1	956.88	.02	1	57 410.0	1 55	153 719.1	1 786.1
32	7	2	987.74	.03	2	59 262.0	2 00	160 401	1 945
33	7	3	1 018.61	.03	3	61 114.1	2 05	167 083	2 104
34	7	4	1 049.48	.04	4	62 966.1	2 10	173 765	2 263
44 35	30.867	35	1 080.34	1852.04	35	64 818.1	5 00	400 797	12 152
36	7	6	1 111.21	.05	6	66 670.2	6 00	480 827	17 496
37	8	7	1 142.08	.06	7	68 522.2	7 00	560 786	23 811
38	8	8	1 172.94	.06	8	70 374.3	8 00	640 662	31 094
39	8	9	1 203.81	.07	9	72 226.4	9 00	720 445	39 345
44 40	30.868	40	1 234.68	1852.07	40	74 078.4	10 00	800 122	48 563
41	8	1	1 265.54	.08	1	75 930.5	11 00	879 681	58 746
42	8	2	1 296.41	.08	2	77 782.6	12 00	959 110	69 893
43	8	3	1 327.28	.09	3	79 634.7	13 00	1 038 399	82 002
44	8	4	1 358.15	.09	4	81 486.8	14 00	1 117 535	95 072
44 45	30.868	45	1 389.01	1852.10	45	83 338.9	15 00	1 196 507	109 100
46	8	6	1 419.88	.10	6	85 191.0	16 00	1 275 303	124 084
47	9	7	1 450.75	.11	7	87 043.1	17 00	1 353 911	140 023
48	9	8	1 481.61	.12	8	88 895.2	18 00	1 432 320	156 913
49	9	9	1 512.48	.12	9	90 747.3	19 00	1 510 519	174 753
44 50	30.869	50	1 543.35	1852.13	50	92 599.5	20 00	1 588 496	193 540
51	9	1	1 574.21	.13	1	94 451.6	21 00	1 666 240	213 270
52	9	2	1 605.08	.14	2	96 303.7	22 00	1 743 738	233 942
53	9	3	1 635.95	.14	3	98 155.9	23 00	1 820 980	255 552
54	9	4	1 666.82	.15	4	100 008.0	24 00	1 897 955	278 096
44 55	30.869	55	1 697.68	1852.15	55	101 860.2	25 00	1 974 650	301 572
56	9	6	1 728.55	.16	6	103 712.3	26 00	2 051 055	325 977
57	69	7	1 759.42	.16	7	105 564.5	27 00	2 127 159	351 306
58	70	8	1 790.28	.17	8	107 416.7	28 00	2 202 950	377 555
59	0	9	1 821.15	.18	9	109 268.8	29 00	2 278 417	404 722
44 60	30.870	60	1 852.02	1852.18	60	111 121.0	30 00	2 353 550	432 801

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 45° to 46°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
45 00	21.903	43.81	65.71	87.61	109.51	131.42	153.32	175.22	197.12	1314.2	2628.3	3942.5	5256.6	6570.8
1	.896	.79	.69	.58	.48	.38	.28	.17	.06	3.8	7.5	1.3	5.1	68.8
2	.890	.78	.67	.56	.45	.34	.23	.12	7.01	3.4	6.8	40.2	3.6	6.9
3	.883	.77	.65	.53	.42	.30	.19	.07	6.95	3.0	6.0	39.0	2.0	5.0
4	.877	.75	.63	.51	.39	.26	.14	5.02	.89	2.6	5.3	7.9	50.5	3.1
45 05	21.871	43.74	65.61	87.48	109.35	131.22	153.10	174.97	196.83	1312.2	2624.5	3936.7	5249.0	6561.2
6	.864	.73	.59	.46	.32	.19	.05	.91	.78	1.9	3.7	5.6	7.4	59.3
7	.858	.72	.57	.43	.29	.15	3.01	.86	.72	1.5	3.0	4.4	5.9	7.4
8	.852	.70	.56	.41	.26	.11	2.96	.81	.66	1.1	2.2	3.3	4.4	5.5
9	.845	.69	.54	.38	.23	.07	.92	.76	.61	0.7	1.5	2.2	2.9	3.6
45 10	21.839	43.68	65.52	87.36	109.20	131.03	152.87	174.71	196.55	1310.3	2620.7	3931.0	5241.3	6551.7
11	.833	.67	.50	.33	.17	1.00	.83	.66	.49	10.0	19.9	29.9	39.8	49.8
12	.826	.65	.48	.30	.13	0.96	.78	.61	.44	9.6	9.1	8.7	8.3	7.9
13	.820	.64	.46	.28	.10	.92	.74	.56	.38	9.2	8.4	7.6	6.8	5.9
14	.813	.63	.44	.25	.07	.88	.69	.51	.32	8.8	7.6	6.4	5.2	4.0
45 15	21.807	43.61	65.42	87.23	109.04	130.84	152.65	174.46	196.26	1308.4	2616.8	3925.3	5233.7	6542.1
16	.801	.60	.40	.20	9.01	.80	.61	.41	.21	8.0	6.1	4.1	2.2	40.2
17	.794	.59	.38	.18	8.98	.77	.56	.35	.15	7.7	5.3	3.0	30.6	38.3
18	.788	.58	.36	.15	.94	.73	.52	.30	.09	7.3	4.5	1.8	29.1	6.4
19	.782	.56	.35	.13	.91	.69	.47	.25	6.04	6.9	3.8	20.7	7.6	4.5
45 20	21.775	43.55	65.33	87.10	108.88	130.65	152.43	174.20	195.98	1306.5	2613.0	3919.5	5226.0	6532.5
21	.769	.54	.31	.07	.85	.61	.39	.15	.92	6.1	2.2	8.4	4.5	30.6
22	.762	.52	.29	.05	.82	.57	.34	.10	.86	5.7	1.5	7.2	3.0	28.7
23	.756	.51	.27	.02	.78	.54	.30	.05	.81	5.4	0.7	6.1	21.4	6.8
24	.750	.50	.25	7.00	.75	.50	.25	4.00	.75	5.0	10.0	4.9	19.9	4.9
45 25	21.743	43.49	65.23	86.97	108.72	130.46	152.21	173.95	195.69	1304.6	2609.2	3913.8	5218.4	6523.0
26	.737	.47	.21	.95	.69	.42	.16	.89	.63	4.2	8.4	2.6	6.8	21.0
27	.730	.46	.19	.92	.66	.38	.12	.84	.57	3.8	7.6	1.5	5.3	19.1
28	.724	.45	.17	.90	.62	.34	.07	.79	.52	3.4	6.9	10.3	3.8	7.2
29	.718	.44	.15	.87	.59	.31	2.03	.74	.46	3.1	6.1	09.2	2.2	5.3
45 30	21.711	43.42	65.13	86.84	108.56	130.27	151.98	173.69	195.40	1302.7	2605.3	3908.0	5210.7	6513.4
31	.705	.41	.11	.82	.53	.23	.94	.64	.34	2.3	4.5	6.9	09.1	11.4
32	.698	.40	.09	.79	.50	.19	.89	.59	.28	1.9	3.8	5.7	7.6	09.5
33	.692	.38	.08	.77	.46	.15	.85	.54	.23	1.5	3.0	4.6	6.1	7.6
34	.686	.37	.06	.74	.43	.11	.80	.48	.17	1.1	2.3	3.4	4.5	5.7
45 35	21.679	43.36	65.04	86.72	108.40	130.07	151.76	173.43	195.11	1300.7	2601.5	3902.2	5203.0	6503.7
36	.673	.35	.02	.69	.37	.04	.71	.38	5.05	0.4	600.7	901.1	201.4	501.8
37	.666	.33	5.00	.66	.34	30.00	.67	.33	4.99	300.0	599.9	899.9	199.9	499.9
38	.660	.32	4.98	.64	.30	29.96	.62	.28	.94	299.6	9.2	8.8	8.4	8.0
39	.653	.31	.96	.61	.27	.92	.58	.23	.88	9.2	8.4	7.6	6.8	6.0
45 40	21.647	43.29	64.94	86.59	108.24	129.88	151.53	173.18	194.82	1298.8	2597.6	3896.5	5195.3	6494.1
41	.641	.28	.92	.56	.20	.84	.48	.12	.76	8.4	6.8	5.3	3.7	2.2
42	.634	.27	.90	.54	.17	.81	.44	.07	.71	8.1	6.1	4.2	2.2	90.3
43	.628	.26	.88	.51	.14	.77	.40	3.02	.65	7.7	5.3	3.0	90.7	88.3
44	.621	.24	.86	.49	.11	.73	.35	2.97	.59	7.3	4.6	1.8	89.1	6.4
45 45	21.615	43.23	64.85	86.46	108.07	129.69	151.31	172.92	194.54	1296.9	2593.8	3890.7	5187.6	6484.5
46	.608	.22	.83	.43	.04	.65	.26	.87	.48	6.5	3.0	89.5	6.0	2.5
47	.602	.20	.81	.41	8.01	.61	.22	.82	.42	6.1	2.2	8.4	4.5	80.6
48	.596	.19	.79	.38	7.98	.57	.17	.76	.36	5.7	1.5	7.2	2.9	78.7
49	.589	.18	.77	.36	.94	.53	.13	.71	.30	5.3	90.7	6.0	81.4	6.7
45 50	21.583	43.17	64.75	86.33	107.91	129.50	151.08	172.66	194.25	1295.0	2589.9	3884.9	5179.9	6474.8
51	.576	.15	.73	.30	.88	.46	1.04	.61	.19	4.6	9.1	3.7	8.3	2.9
52	.570	.14	.71	.28	.85	.42	0.99	.56	.13	4.2	8.4	2.6	6.8	70.9
53	.563	.13	.69	.25	.81	.38	.95	.51	.07	3.8	7.6	1.4	5.2	69.0
54	.557	.11	.67	.23	.78	.34	.90	.46	4.01	3.4	6.9	80.2	3.7	7.1
45 55	21.550	43.10	64.65	86.20	107.75	129.30	150.86	172.40	193.96	1293.0	2586.1	3879.1	5172.1	6465.1
56	.544	.09	.63	.18	.72	.26	.81	.35	.90	2.6	5.3	7.9	70.6	3.2
57	.538	.08	.61	.15	.69	.23	.77	.30	.84	2.3	4.5	6.8	69.0	61.3
58	.531	.06	.59	.13	.65	.19	.72	.25	.78	1.9	3.8	5.6	7.5	59.3
59	.525	.05	.57	.10	.62	.15	.68	.20	.72	1.5	3.0	4.4	5.9	7.4
45 60	21.518	43.04	64.55	86.07	107.59	129.11	150.63	172.15	193.66	1291.1	2582.2	3873.3	5164.4	6455.5

TERRESTRIAL ARCS

Lat.	Latitude 45° to 46°—Meridional arcs						Latitude 45°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 45°30'		Value of 1'	Continuous sums of minutes from latitude 45°00'		Longitude	X	Y	
	Meters	"	Meters	Meters	'	Meters	°	'	Meters	Meters
45 00	30.870			1852.18			0 1			
1	0	1	30.87	.19	1	1 852.2	0 2	1 314.1		0.1
2	0	2	61.74	.19	2	3 704.4	3	2 628.3		0.5
3	0	3	92.62	.20	3	5 556.6	4	3 942.5		1.2
4	0	4	123.49	.20	4	7 408.8		5 256.6		2.2
45 05	30.870	5	154.36	1852.21	5	9 261.0	0 5	6 570.8		3.4
6	0	6	185.23	.21	6	11 113.2	6	7 884.9		4.9
7	0	7	216.11	.22	7	12 965.4	7	9 199.1		6.6
8	0	8	246.98	.23	8	14 817.6	8	10 513.2		8.6
9	1	9	277.85	.23	9	16 669.9	9	11 827.4		10.9
45 10	30.871	10	308.72	1852.24	10	18 522.1	0 10	13 141.5		13.5
11	1	1	339.60	.24	1	20 374.3	15	19 712.3		30.4
12	1	2	370.47	.25	2	22 226.6	20	26 283.0		54.1
13	1	3	401.34	.25	3	24 078.8	25	32 853.7		84.5
14	1	4	432.21	.26	4	25 931.1	30	39 424.3		121.6
45 15	30.871	15	463.09	1852.26	15	27 783.3	0 35	45 994.9		165.6
16	1	6	493.96	.27	6	29 635.6	40	52 565.5		216.2
17	1	7	524.83	.27	7	31 487.9	45	59 136.0		273.7
18	1	8	555.70	.28	8	33 340.1	50	65 706.5		337.9
19	1	9	586.58	.29	9	35 192.4	55	72 276.8		408.8
45 20	30.872	20	617.45	1852.29	20	37 044.7	1 00	78 847.1		486.5
21	2	1	648.32	.30	1	38 897.0	05	85 417.4		571.0
22	2	2	679.19	.30	2	40 749.3	10	91 987.5		662.2
23	2	3	710.07	.31	3	42 601.6	15	98 557.5		760.2
24	2	4	740.94	.31	4	44 453.9	20	105 127.4		865.0
45 25	30.872	25	771.81	1852.32	25	46 306.2	1 25	111 697.3		976.5
26	2	6	802.68	.32	6	48 158.6	30	118 267.0		1 094.7
27	2	7	833.56	.33	7	50 010.9	35	124 836.6		1 219.7
28	2	8	864.43	.34	8	51 863.2	40	131 406.0		1 351.5
29	2	9	895.30	.34	9	53 715.6	45	137 975.3		1 490.0
45 30	30.872	30	926.17	1852.35	30	55 567.9	1 50	144 544.4		1 635.3
31	3	1	957.05	.35	1	57 420.3	55	151 113.5		1 787.3
32	3	2	987.92	.36	2	59 272.6	2 00	157 682		1 946
33	3	3	1 018.79	.36	3	61 125.0	3 00	236 493		4 378
34	3	4	1 049.66	.37	4	62 977.3	4 00	315 269		7 783
45 35	30.873	35	1 080.54	1852.37	35	64 829.7	5 00	393 996		12 160
36	3	6	1 111.41	.38	6	66 682.1	6 00	472 663		17 508
37	3	7	1 142.28	.38	7	68 534.5	7 00	551 258		23 826
38	3	8	1 173.15	.39	8	70 386.9	8 00	629 769		31 114
39	3	9	1 204.02	.40	9	72 239.3	9 00	708 184		39 370
45 40	30.873	40	1 234.90	1852.40	40	74 091.7	10 00	786 492		48 594
41	3	1	1 265.77	.41	1	75 944.1	11 00	864 679		58 782
42	4	2	1 296.64	.41	2	77 796.5	12 00	942 735		69 936
43	4	3	1 327.51	.42	3	79 648.9	13 00	1 020 647		82 051
44	4	4	1 358.39	.42	4	81 501.3	14 00	1 098 404		95 127
45 45	30.874	45	1 389.26	1852.43	45	83 353.7	15 00	1 175 994		109 162
46	4	6	1 420.13	.43	6	85 206.1	16 00	1 253 404		124 153
47	4	7	1 451.00	.44	7	87 058.6	17 00	1 330 624		140 099
48	4	8	1 481.88	.44	8	88 911.0	18 00	1 407 640		156 996
49	4	9	1 512.75	.45	9	90 763.5	19 00	1 484 443		174 842
45 50	30.874	50	1 543.62	1852.46	50	92 615.9	20 00	1 561 019		193 635
51	4	1	1 574.49	.46	1	94 468.4	21 00	1 637 358		213 371
52	4	2	1 605.37	.47	2	96 320.9	22 00	1 713 447		234 048
53	5	3	1 636.24	.47	3	98 173.3	23 00	1 789 276		255 663
54	5	4	1 667.11	.48	4	100 025.8	24 00	1 864 831		278 211
45 55	30.875	55	1 697.98	1852.48	55	101 878.3	25 00	1 940 103		301 690
56	5	6	1 728.86	.49	6	103 730.8	26 00	2 015 079		326 097
57	5	7	1 759.73	.49	7	105 583.3	27 00	2 089 749		351 427
58	5	8	1 790.60	.50	8	107 435.8	28 00	2 164 100		377 676
59	5	9	1 821.47	.51	9	109 288.3	29 00	2 238 121		404 841
45 60	30.875	60	1 852.35	1852.51	60	111 140.8	30 00	2 311 802		432 918

Latitude 46° to 47°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
46 00	21.518	43.04	64.55	86.07	107.59	129.11	150.63	172.15	193.66	1291.1	2582.2	3873.3	5164.4	6455.5
1	.512	.02	.53	.05	.56	.07	.58	.09	.60	0.7	1.4	2.1	2.8	3.5
2	.505	.01	.52	6.02	.53	9.03	.54	2.04	.55	90.3	80.6	70.9	61.3	51.6
3	.499	3.00	.50	5.99	.49	8.99	.49	1.99	.49	89.9	79.9	69.8	59.7	49.6
4	.492	2.98	.48	.97	.46	.95	.45	.94	.43	9.5	9.1	8.6	8.2	7.7
46 05	21.486	42.97	64.46	85.94	107.43	128.92	150.40	171.89	193.37	1289.2	2578.3	3867.5	5156.6	6445.8
6	.479	.96	.44	.92	.40	.88	.35	.84	.31	8.8	7.5	6.3	5.1	3.8
7	.473	.95	.42	.89	.37	.84	.31	.73	.25	8.4	6.7	5.1	3.5	41.9
8	.466	.93	.40	.87	.33	.80	.26	.73	.20	8.0	6.0	4.0	1.9	39.9
9	.460	.92	.38	.84	.30	.76	.22	.68	.14	7.6	5.2	2.8	50.4	8.0
46 10	21.454	42.91	64.36	85.81	107.27	128.72	150.17	171.63	193.08	1287.2	2574.4	3861.6	5148.8	6436.1
11	.447	.89	.34	.79	.24	.68	.13	.58	3.02	6.8	3.6	60.5	7.3	4.1
12	.441	.88	.32	.76	.20	.64	.08	.52	2.96	6.4	2.8	59.3	5.7	2.2
13	.434	.87	.30	.74	.17	.60	50.04	.47	.91	6.0	2.1	8.1	4.2	30.2
14	.428	.86	.28	.71	.14	.57	49.99	.42	.85	5.7	1.3	7.0	2.6	28.3
46 15	21.421	42.84	64.26	85.68	107.10	128.53	149.95	171.37	192.79	1285.3	2570.5	3855.8	5141.1	6426.3
16	.415	.83	.24	.66	.07	.49	.90	.32	.73	4.9	69.7	4.6	39.5	4.4
17	.408	.82	.22	.63	.04	.45	.86	.26	.67	4.5	8.9	3.5	7.9	2.4
18	.402	.80	.21	.61	7.01	.41	.81	.21	.62	4.1	8.2	2.3	6.4	20.5
19	.395	.79	.19	.58	6.97	.37	.77	.16	.56	3.7	7.4	1.1	4.8	18.5
46 20	21.389	42.78	64.17	85.55	106.94	128.33	149.72	171.11	192.50	1283.3	2566.6	3850.0	5133.3	6416.6
21	.382	.76	.15	.53	.91	.29	.68	.06	.44	2.9	5.8	48.8	1.7	4.6
22	.376	.75	.13	.50	.88	.25	.63	1.00	.38	2.5	5.0	7.6	30.1	2.7
23	.369	.74	.11	.48	.84	.21	.59	0.95	.32	2.1	4.3	6.4	28.6	10.7
24	.363	.73	.09	.45	.81	.18	.54	.90	.26	1.8	3.5	5.3	7.0	08.8
46 25	21.356	42.71	64.07	85.42	106.78	128.14	149.50	170.85	192.21	1281.4	2562.7	3844.1	5125.5	6406.8
26	.350	.70	.05	.40	.75	.10	.45	.80	.15	1.0	1.9	2.9	3.9	4.9
27	.343	.69	.03	.37	.72	.06	.41	.74	.09	0.6	1.1	1.8	2.3	2.9
28	.337	.67	4.01	.35	.68	8.02	.36	.69	2.03	80.2	60.4	40.6	20.8	401.0
29	.330	.66	3.99	.32	.65	7.98	.32	.64	1.97	79.8	59.6	39.4	19.2	399.0
46 30	21.324	42.65	63.97	85.29	106.62	127.94	149.27	170.59	191.91	1279.4	2558.8	3838.2	5117.7	6397.1
31	.317	.63	.95	.27	.59	.90	.22	.54	.85	9.0	8.0	7.1	6.1	5.1
32	.311	.62	.93	.24	.55	.86	.18	.48	.79	8.6	7.2	5.9	4.5	3.2
33	.304	.61	.91	.22	.52	.82	.13	.43	.73	8.2	6.5	4.7	3.0	91.2
34	.297	.59	.89	.19	.48	.78	.08	.38	.67	7.8	5.7	3.5	11.4	89.2
46 35	21.291	42.58	63.87	85.16	106.45	127.75	149.04	170.33	191.62	1277.5	2554.9	3832.4	5109.8	6387.3
36	.284	.57	.85	.14	.42	.71	8.99	.28	.56	7.1	4.1	1.2	8.3	5.3
37	.278	.56	.83	.11	.39	.67	.95	.22	.50	6.7	3.3	30.0	6.7	3.4
38	.271	.54	.81	.09	.36	.63	.90	.17	.44	6.3	2.6	28.8	5.1	81.4
39	.265	.53	.79	.06	.32	.59	.86	.12	.38	5.9	1.8	7.7	3.6	79.5
46 40	21.258	42.52	63.77	85.03	106.29	127.55	148.81	170.07	191.32	1275.5	2551.0	3826.5	5102.0	6377.5
41	.252	.50	.75	5.01	.26	.51	.76	70.01	.26	5.1	50.2	5.3	100.4	5.5
42	.245	.49	.74	4.98	.22	.47	.72	69.96	.21	4.7	49.4	4.1	098.9	3.6
43	.239	.48	.72	.96	.19	.43	.67	.91	.15	4.3	8.7	3.0	7.3	71.6
44	.232	.46	.70	.93	.16	.39	.63	.86	.09	3.9	7.9	1.8	5.7	69.6
46 45	21.226	42.45	63.68	84.90	106.12	127.35	148.58	169.80	191.03	1273.5	2547.1	3820.6	5094.1	6367.7
46	.219	.44	.66	.88	.09	.31	.53	.75	0.97	3.1	6.3	19.4	2.6	5.7
47	.213	.43	.64	.85	.06	.28	.49	.70	.91	2.8	5.5	8.3	91.0	3.8
48	.206	.41	.62	.83	6.03	.24	.44	.65	.86	2.4	4.8	7.1	89.4	61.8
49	.199	.40	.60	.80	5.99	.20	.40	.60	.80	2.0	4.0	5.9	7.9	59.8
46 50	21.193	42.39	63.58	84.77	105.96	127.16	148.35	169.54	190.74	1271.6	2543.2	3814.7	5086.3	6357.9
51	.186	.37	.56	.75	.93	.12	.30	.49	.68	1.2	2.4	3.5	4.7	5.9
52	.180	.36	.54	.72	.90	.08	.26	.44	.62	0.8	1.6	2.4	3.1	3.9
53	.173	.35	.52	.69	.86	.04	.21	.39	.56	0.4	0.8	1.2	1.6	2.0
54	.167	.33	.50	.67	.83	7.00	.17	.33	.50	70.0	40.0	10.0	80.0	50.0
46 55	21.160	42.32	63.48	84.64	105.80	126.96	148.12	169.28	190.44	1269.6	2539.2	3808.8	5078.4	6348.0
56	.154	.31	.46	.61	.77	.92	.07	.23	.38	9.2	8.4	7.6	6.9	6.1
57	.147	.29	.44	.59	.74	.88	8.03	.18	.33	8.8	7.6	6.5	5.3	4.1
58	.140	.28	.42	.56	.70	.84	7.98	.12	.27	8.4	6.9	5.3	3.7	2.1
59	.134	.27	.40	.54	.67	.80	.94	.07	.21	8.0	6.1	4.1	2.1	40.2
46 60	21.127	42.25	63.38	84.51	105.64	126.76	147.89	169.02	190.15	1267.6	2535.3	3802.9	5070.6	6338.2

Lat.	Latitude 46° to 47°—Meridional arcs						Latitude 46°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 46°30'		Value of 1'	Continuous sums of minutes from latitude 46°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
46 00	30.875			1852.51			0 1	1 291.1	0.1
1	5	1	30.88	.52	1	1 852.5	2	2 582.2	0.5
2	5	2	61.76	.52	2	3 705.0	3	3 873.3	1.2
3	5	3	92.63	.53	3	5 557.6	4	5 164.4	2.2
4	6	4	123.51	.53	4	7 410.1			
46 05	30.876	5	154.39	1852.54	5	9 262.6	0 5	6 455.5	3.4
6	6	6	185.27	.54	6	11 115.2	6	7 746.6	4.9
7	6	7	216.15	.55	7	12 967.7	7	9 037.6	6.6
8	6	8	247.02	.55	8	14 820.3	8	10 328.7	8.6
9	6	9	277.90	.56	9	16 672.8	9	11 619.8	10.9
46 10	30.876	10	308.78	1852.57	10	18 525.4	0 10	12 910.9	13.5
11	6	1	339.66	.57	1	20 377.9	15	19 366.4	30.4
12	6	2	370.54	.58	2	22 230.5	20	25 821.8	54.0
13	6	3	401.41	.58	3	24 083.1	25	32 277.2	84.4
14	6	4	432.29	.59	4	25 935.7	30	38 732.6	121.6
46 15	30.877	15	463.17	1852.59	15	27 788.3	0 35	45 187.9	165.5
16	7	6	494.05	.60	6	29 640.9	40	51 643.1	216.1
17	7	7	524.92	.60	7	31 493.5	45	58 098.4	273.5
18	7	8	555.80	.61	8	33 346.1	50	64 553.5	337.7
19	7	9	586.68	.61	9	35 198.7	55	71 008.6	408.6
46 20	30.877	20	617.56	1852.62	20	37 051.3	1 00	77 463.6	486.3
21	7	1	648.44	.63	1	38 903.9	05	83 918.5	570.7
22	7	2	679.31	.63	2	40 756.6	10	90 373.3	661.9
23	7	3	710.19	.64	3	42 609.2	15	96 828.0	759.8
24	7	4	741.07	.64	4	44 461.8	20	103 282.7	864.5
46 25	30.877	25	771.95	1852.65	25	46 314.5	1 25	109 737.2	975.9
26	8	6	802.83	.65	6	48 167.1	30	116 191.6	1 094.1
27	8	7	833.70	.66	7	50 019.8	35	122 645.8	1 219.0
28	8	8	864.58	.66	8	51 872.4	40	129 099.9	1 350.7
29	8	9	895.46	.67	9	53 725.1	45	135 553.9	1 489.2
46 30	30.878	30	926.34	1852.68	30	55 577.8	1 50	142 007.8	1 634.4
31	8	1	957.22	.68	1	57 430.5	55	148 461.4	1 786.3
32	8	2	988.09	.69	2	59 283.1	2 00	154 915	1 945
33	8	3	1 018.97	.69	3	61 135.8	3 00	232 342	4 376
34	8	4	1 049.85	.70	4	62 988.5	4 00	309 732	7 779
46 35	30.878	35	1 080.73	1852.70	35	64 841.2	5 00	387 074	12 153
36	8	6	1 111.61	.71	6	66 693.9	6 00	464 354	17 498
37	9	7	1 142.48	.71	7	68 546.6	7 00	541 562	23 813
38	9	8	1 173.36	.72	8	70 399.4	8 00	618 684	31 096
39	9	9	1 204.24	.72	9	72 252.1	9 00	695 708	39 347
46 40	30.879	40	1 235.12	1852.73	40	74 104.8	10 00	772 623	48 565
41	9	1	1 265.99	.74	1	75 957.5	11 00	849 416	58 747
42	9	2	1 296.87	.74	2	77 810.3	12 00	926 075	69 893
43	9	3	1 327.75	.75	3	79 663.0	13 00	1 002 588	82 000
44	9	4	1 358.63	.75	4	81 515.8	14 00	1 078 943	95 067
46 45	30.879	45	1 389.51	1852.76	45	83 368.5	15 00	1 155 128	109 091
46	9	6	1 420.38	.76	6	85 221.3	16 00	1 231 131	124 071
47	79	7	1 451.26	.77	7	87 074.1	17 00	1 306 940	140 003
48	80	8	1 482.14	.77	8	88 926.8	18 00	1 382 543	156 887
49	0	9	1 513.02	.78	9	90 779.6	19 00	1 457 928	174 718
46 50	30.880	50	1 543.90	1852.78	50	92 632.4	20 00	1 533 083	193 494
51	0	1	1 574.77	.79	1	94 485.2	21 00	1 607 997	213 212
52	0	2	1 605.65	.80	2	96 338.0	22 00	1 682 657	233 869
53	0	3	1 636.53	.80	3	98 190.8	23 00	1 757 052	255 462
54	0	4	1 667.41	.81	4	100 043.6	24 00	1 831 170	277 987
46 55	30.880	55	1 698.29	1852.81	55	101 896.4	25 00	1 904 999	301 441
56	0	6	1 729.16	.82	6	103 749.2	26 00	1 978 528	325 820
57	0	7	1 760.04	.82	7	105 602.0	27 00	2 051 745	351 120
58	0	8	1 790.92	.83	8	107 454.8	28 00	2 124 639	377 337
59	1	9	1 821.80	.83	9	109 307.7	29 00	2 197 197	404 468
46 60	30.881	60	1 852.68	1852.84	60	111 160.5	30 00	2 269 410	432 507

Latitude 47° to 48°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
47 00	21.127	42.25	63.38	84.51	105.64	126.76	147.89	169.02	190.15	1267.6	2535.3	3802.9	5070.6	6338.2
1	.121	.24	.36	.48	.61	.72	.84	8.97	.09	7.2	4.5	1.7	69.0	6.2
2	.114	.23	.34	.46	.57	.68	.80	.91	90.03	6.8	3.7	800.5	7.4	4.2
3	.108	.22	.32	.43	.54	.65	.75	.86	89.97	6.5	2.9	799.4	5.8	2.3
4	.101	.20	.30	.40	.51	.61	.71	.81	.91	6.1	2.1	8.2	4.2	30.3
47 05	21.094	42.19	63.28	84.38	105.47	126.57	147.66	168.76	189.85	1265.7	2531.3	3797.0	5062.7	6328.3
6	.088	.18	.26	.35	.44	.53	.61	.70	.79	5.3	30.5	5.8	61.1	6.4
7	.081	.16	.24	.32	.41	.49	.57	.65	.73	4.9	29.7	4.6	59.5	4.4
8	.075	.15	.22	.30	.38	.45	.52	.60	.67	4.5	9.0	3.4	7.9	2.4
9	.068	.14	.20	.27	.34	.41	.48	.54	.61	4.1	8.2	2.3	6.3	20.4
47 10	21.062	42.12	63.18	84.25	105.31	126.37	147.43	168.49	189.55	1263.7	2527.4	3791.1	5054.8	6318.5
11	.055	.11	.16	.22	.28	.33	.38	.44	.49	3.3	6.6	89.9	3.2	6.5
12	.048	.10	.14	.19	.24	.29	.34	.39	.43	2.9	5.8	8.7	1.6	4.5
13	.042	.08	.12	.17	.21	.25	.29	.33	.37	2.5	5.0	7.5	50.0	2.5
14	.035	.07	.10	.14	.18	.21	.25	.28	.31	2.1	4.2	6.3	48.4	10.5
47 15	21.029	42.06	63.09	84.11	105.15	126.17	147.20	168.23	189.26	1261.7	2523.4	3785.1	5046.8	6308.6
16	.022	.04	.07	.09	.11	.13	.15	.18	.20	1.3	2.6	3.9	5.3	6.6
17	.015	.03	.05	.06	.08	.09	.11	.12	.14	0.9	1.8	2.8	3.7	4.6
18	.009	.02	.03	.04	.05	.05	.06	.07	.08	0.5	1.1	1.6	2.1	2.6
19	.002	2.00	3.01	4.01	5.01	6.01	7.02	8.02	9.02	60.1	20.3	80.4	40.5	300.6
47 20	20.996	41.99	62.99	83.98	104.98	125.97	146.97	167.96	188.96	1259.7	2519.5	3779.2	5038.9	6298.7
21	.989	.98	.97	.96	.95	.93	.92	.91	.90	9.3	8.7	8.0	7.3	6.7
22	.982	.96	.95	.93	.91	.89	.88	.86	.84	8.9	7.9	6.8	5.8	4.7
23	.976	.95	.93	.90	.88	.85	.83	.81	.78	8.5	7.1	5.6	4.2	2.7
24	.969	.94	.91	.88	.85	.81	.79	.75	.72	8.1	6.3	4.4	2.6	90.7
47 25	20.962	41.92	62.89	83.85	104.81	125.77	146.74	167.70	188.66	1257.7	2515.5	3773.2	5031.0	6288.7
26	.956	.91	.87	.82	.78	.74	.69	.65	.60	7.4	4.7	2.1	29.4	6.8
27	.949	.90	.85	.80	.75	.70	.65	.59	.54	7.0	3.9	70.9	7.8	4.8
28	.943	.89	.83	.77	.72	.66	.60	.54	.48	6.6	3.1	69.7	6.2	2.8
29	.936	.87	.81	.74	.68	.62	.56	.49	.42	6.2	2.3	8.5	4.6	80.8
47 30	20.929	41.86	62.79	83.72	104.65	125.58	146.51	167.44	188.36	1255.8	2511.5	3767.3	5023.1	6278.8
31	.923	.85	.77	.69	.62	.54	.46	.38	.30	5.4	10.7	6.1	21.5	6.8
32	.916	.83	.75	.66	.58	.50	.42	.33	.24	5.0	09.9	4.9	19.9	4.8
33	.910	.82	.73	.64	.55	.46	.37	.28	.18	4.6	9.1	3.7	8.3	2.9
34	.903	.81	.71	.61	.52	.42	.32	.22	.12	4.2	8.3	2.5	6.7	70.9
47 35	20.896	41.79	62.69	83.58	104.48	125.38	146.28	167.17	188.07	1253.8	2507.5	3761.3	5015.1	6268.9
36	.890	.78	.67	.56	.45	.34	.23	.12	8.01	3.4	6.7	60.1	3.5	6.9
37	.883	.77	.65	.53	.42	.30	.18	.06	7.95	3.0	5.9	58.9	1.9	4.9
38	.876	.75	.63	.51	.39	.26	.13	7.01	.89	2.6	5.2	7.7	10.3	2.9
39	.870	.74	.61	.48	.35	.22	.09	6.96	.83	2.2	4.4	6.5	08.7	60.9
47 40	20.863	41.73	62.59	83.45	104.32	125.18	146.04	166.90	187.77	1251.8	2503.6	3755.4	5007.1	6258.9
41	.856	.71	.57	.43	.29	.14	5.99	.85	.71	1.4	2.8	4.2	5.5	6.9
42	.850	.70	.55	.40	.25	.10	.95	.80	.65	1.0	2.0	3.0	4.0	4.9
43	.843	.69	.53	.37	.22	.06	.90	.75	.59	0.6	1.2	1.8	2.4	2.9
44	.836	.67	.51	.35	.18	5.02	.86	.69	.53	50.2	500.4	50.6	5000.8	50.9
47 45	20.830	41.66	62.49	83.32	104.15	124.98	145.81	166.64	187.47	1249.8	2499.6	3749.4	4999.2	6248.9
46	.823	.65	.47	.29	.12	.94	.76	.59	.41	9.4	8.8	8.2	7.6	7.0
47	.817	.63	.45	.27	.08	.90	.72	.53	.35	9.0	8.0	7.0	6.0	5.0
48	.810	.62	.43	.24	.05	.86	.67	.48	.29	8.6	7.2	5.8	4.4	3.0
49	.803	.61	.41	.21	4.01	.82	.63	.43	.23	8.2	6.4	4.6	2.8	41.0
47 50	20.797	41.59	62.39	83.19	103.98	124.78	145.58	166.37	187.17	1247.8	2495.6	3743.4	4991.2	6239.0
51	.790	.58	.37	.16	.95	.74	.53	.32	.11	7.4	4.8	2.2	89.6	7.0
52	.783	.57	.35	.13	.91	.70	.49	.27	7.05	7.0	4.0	41.0	8.0	5.0
53	.777	.55	.33	.11	.88	.66	.44	.21	6.99	6.6	3.2	39.8	6.4	3.0
54	.770	.54	.31	.08	.85	.62	.39	.16	.93	6.2	2.4	8.6	4.8	31.0
47 55	20.763	41.53	62.29	83.05	103.81	124.58	145.35	166.11	186.87	1245.8	2491.6	3737.4	4983.2	6229.0
56	.757	.51	.27	.03	.78	.54	.30	.05	.81	5.4	0.8	6.2	1.6	7.0
57	.750	.50	.25	3.00	.75	.50	.25	6.00	.75	5.0	90.0	5.0	80.0	5.0
58	.743	.49	.23	2.97	.72	.46	.20	5.95	.69	4.6	89.2	3.8	78.4	3.0
59	.737	.47	.21	.95	.68	.42	.16	.89	.63	4.2	8.4	2.6	6.8	21.0
47 60	20.730	41.46	62.19	82.92	103.65	124.38	145.11	165.84	186.57	1243.8	2487.6	3731.4	4975.2	6219.0

Lat.	Latitude 47° to 48°—Meridional arcs						Latitude 47°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 47°30'		Value of 1'	Continuous sums of minutes from latitude 47°00'		Longitude	X	Y
		Meters	"		Meters	'			
47 00	30.881			1852.84			0 1	1 267.6	0.1
1	1	1	30.88	.85	1	1 852.8	0 2	2 535.3	0.5
2	1	2	61.77	.85	2	3 705.7	0 3	3 802.9	1.2
3	1	3	92.65	.86	3	5 558.5	0 4	5 070.5	2.2
4	1	4	123.53	.86	4	7 411.4			
47 05	30.881	5	154.42	1852.87	5	9 264.3	0 5	6 338.2	3.4
6	1	6	185.30	.87	6	11 117.1	0 6	7 605.8	4.8
7	1	7	216.18	.88	7	12 970.0	0 7	8 873.5	6.6
8	1	8	247.07	.88	8	14 822.9	0 8	10 141.1	8.6
9	1	9	277.95	.89	9	16 675.8	0 9	11 408.7	10.9
47 10	30.882	10	308.83	1852.89	10	18 528.7	0 10	12 676.4	13.5
11	2	1	339.72	.90	1	20 381.6	0 15	19 014.6	30.3
12	2	2	370.60	.91	2	22 234.5	0 20	25 352.7	53.9
13	2	3	401.48	.91	3	24 087.4	0 25	31 690.8	84.3
14	2	4	432.37	.92	4	25 940.3	0 30	38 028.9	121.4
47 15	30.882	15	463.25	1852.92	15	27 793.2	0 35	44 366.9	165.2
16	2	6	494.13	.93	6	29 646.1	0 40	50 704.9	215.7
17	2	7	525.02	.93	7	31 499.1	0 45	57 042.9	273.0
18	2	8	555.90	.94	8	33 352.0	0 50	63 380.7	337.1
19	2	9	586.78	.94	9	35 204.9	0 55	69 718.5	407.9
47 20	30.882	20	617.67	1852.95	20	37 057.9	1 00	76 056.3	485.4
21	3	1	648.55	.95	1	38 910.8	0 05	82 393.9	569.7
22	3	2	679.43	.96	2	40 763.8	0 10	88 731.4	660.7
23	3	3	710.32	.97	3	42 616.8	0 15	95 068.9	758.4
24	3	4	741.20	.97	4	44 469.7	0 20	101 406.2	862.9
47 25	30.883	25	772.08	1852.98	25	46 322.7	1 25	107 743.4	974.2
26	3	6	802.97	.98	6	48 175.7	0 30	114 080.5	1 092.2
27	3	7	833.85	.99	7	50 028.7	0 35	120 417.5	1 216.9
28	3	8	864.74	2.99	8	51 881.7	0 40	126 754.3	1 348.3
29	3	9	895.62	3.00	9	53 734.7	0 45	133 091.0	1 486.5
47 30	30.883	30	926.50	1853.00	30	55 587.7	1 50	139 427.6	1 631.5
31	3	1	957.39	.01	1	57 440.7	0 55	145 764.0	1 783.2
32	4	2	988.27	.01	2	59 293.7	2 00	152 100	1 942
33	4	3	1 019.15	.02	3	61 146.7	3 00	228 119	4 368
34	4	4	1 050.04	.03	4	62 999.7	4 00	304 101	7 765
47 35	30.884	35	1 080.92	1853.03	35	64 852.7	5 00	380 034	12 131
36	4	6	1 111.80	.04	6	66 705.8	6 00	455 904	17 467
37	4	7	1 142.69	.04	7	68 558.8	7 00	531 700	23 770
38	4	8	1 173.57	.05	8	70 411.9	8 00	607 410	31 040
39	4	9	1 204.45	.05	9	72 264.9	9 00	683 020	39 276
47 40	30.884	40	1 235.34	1853.06	40	74 118.0	10 00	758 520	48 477
41	4	1	1 266.22	.06	1	75 971.0	11 00	833 895	58 640
42	4	2	1 297.10	.07	2	77 824.1	12 00	909 135	69 765
43	5	3	1 327.99	.08	3	79 677.2	13 00	984 227	81 849
44	5	4	1 358.87	.08	4	81 530.2	14 00	1 059 158	94 890
47 45	30.885	45	1 389.75	1853.09	45	83 383.3	15 00	1 133 917	108 887
46	5	6	1 420.64	.09	6	85 236.4	16 00	1 208 491	123 837
47	5	7	1 451.52	.10	7	87 089.5	17 00	1 283 868	139 738
48	5	8	1 482.40	.10	8	88 942.6	18 00	1 357 036	156 587
49	5	9	1 513.29	.11	9	90 795.7	19 00	1 430 984	174 381
47 50	30.885	50	1 544.17	1853.11	50	92 648.8	20 00	1 504 697	193 118
51	5	1	1 575.05	.12	1	94 501.9	21 00	1 578 166	212 793
52	5	2	1 605.94	.12	2	96 355.1	22 00	1 651 377	233 405
53	5	3	1 636.82	.13	3	98 208.2	23 00	1 724 320	254 950
54	6	4	1 667.70	.14	4	100 061.3	24 00	1 796 982	277 425
47 55	30.886	55	1 698.59	1853.14	55	101 914.5	25 00	1 869 351	300 824
56	6	6	1 729.47	.15	6	103 767.6	26 00	1 941 415	325 146
57	6	7	1 760.35	.15	7	105 620.8	27 00	2 013 163	350 386
58	6	8	1 791.24	.16	8	107 473.9	28 00	2 084 583	376 539
59	6	9	1 822.12	.16	9	109 327.1	29 00	2 155 663	403 602
47 60	30.886	60	1 853.00	1853.17	60	111 180.2	30 00	2 226 392	431 569

Latitude 48° to 49°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
48 00	20.730	41.46	62.19	82.92	103.65	124.38	145.11	165.84	186.57	1243.8	2487.6	3731.4	4975.2	6219.0
1	.723	.45	.17	.89	.62	.34	.06	.79	.51	3.4	6.8	30.2	3.6	7.0
2	.717	.43	.15	.87	.58	.30	5.02	.73	.45	3.0	6.0	29.0	2.0	5.0
3	.710	.42	.13	.84	.55	.26	4.97	.68	.39	2.6	5.2	7.8	70.4	3.0
4	.703	.41	.11	.81	.52	.22	.92	.63	.33	2.2	4.4	6.6	68.8	10.9
48 05	20.696	41.39	62.09	82.79	103.48	124.18	144.88	165.57	186.27	1241.8	2483.6	3725.4	4967.2	6208.9
6	.690	.38	.07	.76	.45	.14	.83	.52	.21	1.4	2.8	4.2	5.5	6.9
7	.683	.37	.05	.73	.42	.10	.78	.46	.15	1.0	2.0	3.0	3.9	4.9
8	.676	.35	.03	.71	.39	.06	.73	.41	.09	0.6	1.2	1.8	2.3	2.9
9	.670	.34	2.01	.68	.35	4.02	.69	.36	6.03	40.2	80.4	20.6	60.7	200.9
48 10	20.663	41.33	61.99	82.65	103.32	123.98	144.64	165.30	185.97	1239.8	2479.6	3719.4	4959.1	6198.9
11	.656	.31	.97	.63	.29	.94	.59	.25	.91	9.4	8.8	8.1	7.5	6.9
12	.650	.30	.95	.60	.25	.90	.55	.20	.85	9.0	8.0	6.9	5.9	4.9
13	.643	.29	.93	.57	.22	.86	.50	.14	.79	8.6	7.1	5.7	4.3	2.9
14	.636	.27	.91	.54	.18	.82	.45	.09	.73	8.2	6.3	4.5	2.7	90.9
48 15	20.630	41.26	61.89	82.52	103.15	123.78	144.41	165.04	185.66	1237.8	2475.5	3713.3	4951.1	6188.9
16	.623	.25	.87	.49	.12	.74	.36	4.98	.60	7.4	4.7	2.1	49.5	6.8
17	.616	.23	.85	.46	.08	.70	.31	.93	.54	7.0	3.9	10.9	7.9	4.8
18	.609	.22	.83	.44	.05	.66	.26	.88	.48	6.6	3.1	09.7	6.3	2.8
19	.603	.21	.81	.41	3.01	.62	.22	.82	.42	6.2	2.3	8.5	4.7	80.8
48 20	20.596	41.19	61.79	82.38	102.98	123.58	144.17	164.77	185.36	1235.8	2471.5	3707.3	4943.0	6178.8
21	.589	.18	.77	.36	.95	.54	.12	.71	.30	5.4	70.7	6.1	41.4	6.8
22	.583	.17	.75	.33	.91	.50	.08	.66	.24	5.0	69.9	4.9	39.8	4.8
23	.576	.15	.73	.30	.88	.46	4.03	.61	.18	4.6	9.1	3.7	8.2	2.8
24	.569	.14	.71	.28	.85	.42	3.98	.55	.12	4.2	8.3	2.5	6.6	70.8
48 25	20.562	41.12	61.69	82.25	102.81	123.37	143.93	164.50	185.06	1233.7	2467.5	3701.2	4935.0	6168.7
26	.556	.11	.67	.22	.78	.33	.89	.45	5.00	3.3	6.7	700.0	3.4	6.7
27	.549	.10	.65	.20	.74	.29	.84	.39	4.94	2.9	5.9	698.8	1.8	4.7
28	.542	.08	.63	.17	.71	.25	.79	.34	.88	2.5	5.1	7.6	30.1	2.7
29	.536	.07	.61	.14	.67	.21	.75	.28	.82	2.1	4.3	6.4	28.5	60.7
48 30	20.529	41.06	61.59	82.12	102.64	123.17	143.70	164.23	184.76	1231.7	2463.5	3695.2	4926.9	6158.7
31	.522	.04	.57	.09	.61	.13	.65	.18	.70	1.3	2.7	4.0	5.3	6.6
32	.515	.03	.55	.06	.57	.09	.61	.12	.64	0.9	1.9	2.8	3.7	4.6
33	.509	.02	.53	.03	.54	.05	.56	.07	.58	0.5	1.0	1.5	2.1	2.6
34	.502	1.00	.51	2.01	.51	3.01	.51	4.01	.52	30.1	60.2	90.3	20.4	50.6
48 35	20.495	40.99	61.48	81.98	102.47	122.97	143.47	163.96	184.45	1229.7	2459.4	3689.1	4918.8	6148.5
36	.488	.98	.46	.95	.44	.93	.42	.91	.39	9.3	8.6	7.9	7.2	6.5
37	.482	.96	.44	.93	.41	.89	.37	.85	.33	8.9	7.8	6.7	5.6	4.5
38	.475	.95	.42	.90	.38	.85	.32	.80	.27	8.5	7.0	5.5	4.0	2.5
39	.468	.94	.40	.87	.34	.81	.28	.75	.21	8.1	6.2	4.3	2.4	40.5
48 40	20.461	40.92	61.38	81.85	102.31	122.77	143.23	163.69	184.15	1227.7	2455.4	3683.1	4910.7	6138.4
41	.455	.91	.36	.82	.28	.73	.18	.64	.09	7.3	4.6	1.8	09.1	6.4
42	.448	.90	.34	.79	.24	.69	.14	.58	4.03	6.9	3.8	80.6	7.5	4.4
43	.441	.88	.32	.76	.21	.65	.09	.53	3.97	6.5	2.9	79.4	5.9	2.4
44	.434	.87	.30	.74	.17	.61	.04	.48	.91	6.1	2.1	8.2	4.3	30.3
48 45	20.428	40.86	61.28	81.71	102.14	122.57	143.00	163.42	183.85	1225.7	2451.3	3677.0	4902.6	6128.3
46	.421	.84	.26	.68	.11	.53	2.95	.37	.79	5.3	50.5	5.8	901.0	6.3
47	.414	.83	.24	.66	.07	.48	.90	.31	.73	4.8	49.7	4.5	899.4	4.2
48	.407	.81	.22	.63	.04	.44	.85	.26	.67	4.4	8.9	3.3	7.8	2.2
49	.401	.80	.20	.60	2.00	.40	.81	.21	.61	4.0	8.1	2.1	6.2	20.2
48 50	20.394	40.79	61.18	81.58	101.97	122.36	142.76	163.15	183.55	1223.6	2447.3	3670.9	4894.5	6118.2
51	.387	.77	.16	.55	.94	.32	.71	.10	.49	3.2	6.5	69.7	2.9	6.1
52	.380	.76	.14	.52	.90	.28	.66	3.04	.43	2.8	5.7	8.5	91.3	4.1
53	.374	.75	.12	.49	.87	.24	.62	2.99	.36	2.4	4.8	7.2	89.7	2.1
54	.367	.73	.10	.47	.83	.20	.57	.93	.30	2.0	4.0	6.0	8.0	10.0
48 55	20.360	40.72	61.08	81.44	101.80	122.16	142.52	162.88	183.24	1221.6	2443.2	3664.8	4886.4	6108.0
56	.353	.71	.06	.41	.77	.12	.47	.83	.18	1.2	2.4	3.6	4.8	6.0
57	.346	.69	.04	.39	.73	.08	.42	.77	.12	0.8	1.6	2.4	3.1	3.9
58	.340	.68	.02	.36	.70	.04	.38	.72	3.05	0.4	40.7	61.1	81.5	101.9
59	.333	.67	1.00	.33	.66	2.00	.33	.66	2.99	20.0	39.9	59.9	79.9	099.9
48 60	20.326	40.65	60.98	81.30	101.63	121.96	142.28	162.61	182.93	1219.6	2439.1	3658.7	4878.3	6097.8

TERRESTRIAL ARCS

Lat.	Latitude 48° to 49°—Meridional arcs					Latitude 48°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 48°30'		Value of 1'	Continuous sums of minutes from latitude 48°00'	Longitude	X	Y	
	Meters	''	Meters	Meters	'	Meters	Meters	Meters	
48 00	30.886			1853.17					
1	6	1	30.89	.17	1	853.2	0 1	0.1	
2	6	2	61.78	.18	2	706.3	2	0.5	
3	6	3	92.67	.18	3	559.5	3	1.2	
4	6	4	123.56	.19	4	412.7	4	2.1	
48 05	30.887			1853.20					
6	7	6	154.44	.20	6	265.9	0 5	3.3	
7	7	7	185.33	.21	7	119.1	6	4.8	
8	7	8	216.22	.21	8	972.3	7	6.6	
9	7	9	247.11	.21	9	825.5	8	8.6	
			278.00	.22		678.7	9	10.9	
48 10	30.887			1853.22					
11	7	10	308.89	.23	10	531.9	0 10	13.4	
12	7	1	339.78	.23	1	385.2	15	30.2	
13	7	2	370.67	.23	2	238.4	20	53.8	
14	7	3	401.56	.24	3	91.6	25	84.0	
		4	432.44	.24	4	944.9	30	121.0	
48 15	30.887			1853.25					
16	8	15	463.33	.26	15	798.1	0 35	164.7	
17	8	6	494.22	.26	6	651.4	40	215.1	
18	8	7	525.11	.26	7	504.6	45	272.2	
19	8	8	556.00	.27	8	357.9	50	336.1	
		9	586.89	.27	9	211.2	55	406.7	
48 20	30.888			1853.28					
21	8	20	617.78	.28	20	64.4	1 00	484.0	
22	8	1	648.67	.28	1	917.7	05	568.0	
23	8	2	679.56	.29	2	771.0	10	658.7	
24	8	3	710.44	.29	3	624.3	15	756.2	
		4	741.33	.30	4	477.6	20	860.4	
48 25	30.888			1853.30					
26	8	25	772.22	.31	25	330.9	1 25	971.3	
27	9	6	803.11	.31	6	184.2	30	1 088.9	
28	9	7	834.00	.32	7	37.5	35	1 213.2	
29	9	8	864.89	.32	8	890.8	40	1 344.3	
		9	895.78	.33	9	744.2	45	1 482.1	
48 30	30.889			1853.33					
31	9	30	926.67	.34	30	597.5	1 50	1 626.6	
32	9	1	957.55	.34	1	450.8	55	1 777.8	
33	9	2	988.44	.34	2	304.2	2 00	1 936	
34	9	3	1 019.33	.35	3	157.5	3 00	4 355	
		4	1 050.22	.35	4	10.9	4 00	7 742	
48 35	30.889			1853.36					
36	9	35	1 081.11	.36	35	864.2	5 00	12 095	
37	89	6	1 112.00	.36	6	717.6	6 00	17 414	
38	90	7	1 142.89	.37	7	570.9	7 00	23 698	
39	0	8	1 173.78	.38	8	424.3	8 00	30 946	
		9	1 204.67	.38	9	277.7	9 00	39 157	
48 40	30.890			1853.39					
41	0	40	1 235.55	.39	40	131.1	10 00	48 329	
42	0	1	1 266.44	.39	1	984.5	11 00	58 461	
43	0	2	1 297.33	.40	2	837.9	12 00	69 552	
44	0	3	1 328.22	.40	3	691.3	13 00	81 598	
		4	1 359.11	.41	4	544.7	14 00	94 598	
48 45	30.890			1853.41					
46	0	45	1 390.00	.42	45	398.1	15 00	108 551	
47	0	6	1 420.89	.42	6	251.5	16 00	123 453	
48	0	7	1 451.78	.42	7	104.9	17 00	139 302	
49	1	8	1 482.67	.43	8	958.3	18 00	156 096	
		9	1 513.55	.44	9	811.8	19 00	173 832	
48 50	30.891			1853.44					
51	1	50	1 544.44	.45	50	665.2	20 00	192 506	
52	1	1	1 575.33	.45	1	518.7	21 00	212 116	
53	1	2	1 606.22	.45	2	372.1	22 00	232 658	
54	1	3	1 637.11	.46	3	225.6	23 00	254 128	
		4	1 668.00	.46	4	79.0	24 00	276 524	
48 55	30.891			1853.47					
56	1	55	1 698.89	.47	55	932.5	25 00	299 842	
57	1	6	1 729.78	.47	6	786.0	26 00	324 077	
58	1	7	1 760.67	.48	7	639.4	27 00	349 225	
59	1	8	1 791.55	.48	8	492.9	28 00	375 283	
48 60	30.892			1853.50					
		9	1 822.44	.49	9	346.4	29 00	402 245	
		60	1 853.33	.50	60	199.9	30 00	430 107	

Latitude 49° to 50°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
49 00	20.326	40.65	60.98	81.30	101.63	121.96	142.28	162.61	182.93	1219.6	2439.1	3658.7	4878.3	6097.8
1	.319	.64	.96	.28	.60	.92	.23	.55	.87	9.2	8.3	7.5	6.6	5.8
2	.313	.63	.94	.25	.56	.88	.19	.50	.81	8.8	7.5	6.3	5.0	3.8
3	.306	.61	.92	.22	.53	.83	.14	.45	.75	8.3	6.7	5.0	3.4	91.7
4	.299	.60	.90	.20	.49	.79	.09	.39	.69	7.9	5.9	3.8	1.8	89.7
49 05	20.292	40.58	60.88	81.17	101.46	121.75	142.04	162.34	182.63	1217.5	2435.1	3652.6	4870.1	6087.7
6	.285	.57	.86	.14	.43	.71	2.00	.28	.57	7.1	4.3	1.4	68.5	5.6
7	.279	.56	.84	.12	.39	.67	1.95	.23	.51	6.7	3.5	50.2	6.9	3.6
8	.272	.54	.81	.09	.36	.63	.90	.17	.44	6.3	2.6	48.9	5.2	81.5
9	.265	.53	.79	.06	.32	.59	.86	.12	.38	5.9	1.8	7.7	3.6	79.5
49 10	20.258	40.52	60.77	81.03	101.29	121.55	141.81	162.07	182.32	1215.5	2431.0	3646.5	4862.0	6077.5
11	.251	.50	.75	1.01	.26	.51	.76	2.01	.26	5.1	30.2	5.3	60.3	5.4
12	.245	.49	.73	0.98	.22	.47	.71	1.96	.20	4.7	29.4	4.0	58.7	3.4
13	.238	.48	.71	.95	.19	.43	.67	.90	.14	4.3	8.5	2.8	7.1	71.3
14	.231	.46	.69	.92	.15	.39	.62	.85	.08	3.9	7.7	1.6	5.4	69.3
49 15	20.224	40.45	60.67	80.90	101.12	121.35	141.57	161.79	182.02	1213.5	2426.9	3640.4	4853.8	6067.3
16	.217	.43	.65	.87	.09	.30	.52	.74	1.95	3.0	6.1	39.1	2.2	5.2
17	.211	.42	.63	.84	.05	.26	.47	.68	.89	2.6	5.3	7.9	50.5	3.2
18	.204	.41	.61	.81	.02	.22	.43	.63	.83	2.2	4.4	6.7	48.9	61.1
19	.197	.39	.59	.79	0.98	.18	.38	.58	.77	1.8	3.6	5.5	7.3	59.1
49 20	20.190	40.38	60.57	80.76	100.95	121.14	141.33	161.52	181.71	1211.4	2422.8	3634.2	4845.6	6057.1
21	.183	.37	.55	.73	.92	.10	.28	.47	.65	1.0	2.0	3.0	4.0	5.0
22	.177	.35	.53	.71	.88	.06	.23	.41	.59	0.6	1.2	1.8	2.4	3.0
23	.170	.34	.51	.68	.85	1.02	.19	.36	.53	10.2	20.3	30.5	40.7	50.9
24	.163	.33	.49	.65	.81	0.98	.14	.30	.47	09.8	19.5	29.3	39.1	48.9
49 25	20.156	40.31	60.47	80.62	100.78	120.94	141.09	161.25	181.41	1209.4	2418.7	3628.1	4837.4	6046.8
26	.149	.30	.45	.60	.75	.90	1.04	.19	.34	9.0	7.9	6.9	5.8	4.8
27	.142	.28	.43	.57	.71	.85	0.99	.14	.28	8.5	7.1	5.6	4.2	2.7
28	.136	.27	.41	.54	.68	.81	.95	.08	.22	8.1	6.2	4.4	2.5	40.7
29	.129	.26	.39	.51	.64	.77	.90	1.03	.16	7.7	5.4	3.2	30.9	38.6
49 30	20.122	40.24	60.37	80.49	100.61	120.73	140.85	160.98	181.10	1207.3	2414.6	3621.9	4829.3	6036.6
31	.115	.23	.35	.46	.58	.69	.80	.92	1.04	6.9	3.8	20.7	7.6	4.5
32	.108	.22	.33	.43	.54	.65	.75	.87	0.98	6.5	3.0	19.5	6.0	2.5
33	.101	.20	.30	.40	.51	.61	.71	.81	.91	6.1	2.1	8.2	4.3	30.4
34	.095	.19	.28	.38	.47	.57	.66	.76	.85	5.7	1.3	7.0	2.7	28.4
49 35	20.088	40.18	60.26	80.35	100.44	120.53	140.61	160.70	180.79	1205.3	2410.5	3615.8	4821.0	6026.3
36	.081	.16	.24	.32	.41	.49	.56	.65	.73	4.9	09.7	4.5	19.4	4.3
37	.074	.15	.22	.30	.37	.44	.51	.59	.67	4.4	8.9	3.3	7.8	2.2
38	.067	.13	.20	.27	.34	.40	.47	.54	.60	4.0	8.0	2.1	6.1	20.1
39	.060	.12	.18	.24	.30	.36	.42	.48	.54	3.6	7.2	10.9	4.5	18.1
49 40	20.053	40.11	60.16	80.21	100.27	120.32	140.37	160.43	180.48	1203.2	2406.4	3609.6	4812.8	6016.0
41	.047	.09	.14	.19	.24	.28	.32	.37	.42	2.8	5.6	8.4	11.2	4.0
42	.040	.08	.12	.16	.20	.24	.27	.32	.36	2.4	4.8	7.2	9.5	11.9
43	.033	.07	.10	.13	.17	.20	.23	.26	.29	2.0	3.9	5.9	7.9	09.9
44	.026	.05	.08	.10	.13	.16	.18	.21	.23	1.6	3.1	4.7	6.2	7.8
49 45	20.019	40.04	60.06	80.08	100.10	120.12	140.13	160.15	180.17	1201.2	2402.3	3603.4	4804.6	6005.8
46	.012	.02	.04	.05	.06	.07	.08	.10	.11	0.7	1.5	2.2	3.0	3.7
47	.005	.01	.02	80.02	100.02	20.03	40.03	60.04	80.05	200.3	400.7	601.0	801.3	6001.6
48	19.999	40.00	60.00	79.99	99.99	19.99	39.99	59.99	79.98	199.9	399.8	599.7	799.7	5999.6
49	.992	39.98	59.97	.97	.95	.95	.94	.93	.92	9.5	9.0	8.5	8.0	7.5
49 50	19.985	39.97	59.95	79.94	99.92	119.91	139.89	159.88	179.86	1199.1	2398.2	3597.3	4796.4	5995.5
51	.978	.96	.93	.91	.89	.87	.84	.82	.80	8.7	7.4	6.0	4.7	3.4
52	.971	.94	.91	.89	.85	.83	.80	.77	.74	8.3	6.6	4.8	3.1	91.3
53	.964	.93	.89	.86	.82	.79	.75	.71	.68	7.9	5.7	3.6	91.4	89.3
54	.957	.91	.87	.83	.78	.74	.70	.66	.61	7.4	4.9	2.3	89.8	7.2
49 55	19.950	39.90	59.85	79.80	99.75	119.70	139.65	159.60	179.55	1197.0	2394.1	3591.1	4788.1	5985.1
56	.944	.89	.83	.78	.72	.66	.60	.55	.49	6.6	3.3	89.9	6.5	3.1
57	.937	.87	.81	.75	.68	.62	.55	.49	.43	6.2	2.4	8.6	4.8	81.0
58	.930	.86	.79	.72	.65	.58	.51	.44	.37	5.8	1.6	7.4	3.2	79.0
59	.923	.85	.77	.69	.61	.54	.46	.38	.30	5.4	90.7	6.1	81.5	6.9
49 60	19.916	39.83	59.75	79.66	99.58	119.50	139.41	159.33	179.24	1195.0	2389.9	3584.9	4779.9	5974.8

Lat.	Latitude 49° to 50°—Meridional arcs						Latitude 49°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 49°30'		Value of 1'	Continuous sums of minutes from latitude 49°00'		Longitude	X	Y
		Meters	''		Meters	Meters			
49 00	30.892			1853.50			0 1	1 219.6	0.1
1	2	1	30.89	.50	1	1 853.5	2	2 439.1	0.5
2	2	2	61.79	.51	2	3 707.0	3	3 658.7	1.2
3	2	3	92.68	.51	3	5 560.5	4	4 878.3	2.1
4	2	4	123.58	.52	4	7 414.0			
49 05	30.892	5	154.47	1853.52	5	9 267.5	0 5	6 097.9	3.3
6	2	6	185.37	.53	6	11 121.1	6	7 317.5	4.8
7	2	7	216.26	.53	7	12 974.6	7	8 537.0	6.6
8	2	8	247.15	.54	8	14 828.1	8	9 756.6	8.6
9	2	9	278.05	.54	9	16 681.7	9	10 976.2	10.8
49 10	30.892	10	308.94	1853.55	10	18 535.2	0 10	12 195.8	13.4
11	3	1	339.84	.55	1	20 388.8	15	18 293.6	30.1
12	3	2	370.73	.56	2	22 242.3	20	24 391.3	53.5
13	3	3	401.63	.57	3	24 095.9	25	30 489.1	83.7
14	3	4	432.52	.57	4	25 949.5	30	36 586.8	120.5
49 15	30.893	15	463.41	1853.58	15	27 803.0	0 35	42 684.5	164.0
16	3	6	494.31	.58	6	29 656.6	40	48 782.1	214.2
17	3	7	525.20	.59	7	31 510.2	45	54 879.7	271.1
18	3	8	556.10	.59	8	33 363.8	50	60 977.2	334.7
19	3	9	586.99	.60	9	35 217.4	55	67 074.7	404.9
49 20	30.893	20	617.89	1853.60	20	37 071.0	1 00	73 172.0	481.9
21	3	1	648.78	.61	1	38 924.6	05	79 269.3	565.6
22	4	2	679.67	.61	2	40 778.2	10	85 366.5	656.0
23	4	3	710.57	.62	3	42 631.8	15	91 463.6	753.0
24	4	4	741.46	.63	4	44 485.4	20	97 560.5	856.7
49 25	30.894	25	772.36	1853.63	25	46 339.1	1 25	103 657.4	967.2
26	4	6	803.25	.64	6	48 192.7	30	109 754.1	1 084.3
27	4	7	834.15	.64	7	50 046.3	35	115 850.7	1 208.1
28	4	8	865.04	.65	8	51 900.0	40	121 947.1	1 338.6
29	4	9	895.93	.65	9	53 753.6	45	128 043.4	1 475.9
49 30	30.894	30	926.83	1853.66	30	55 607.3	1 50	134 139.6	1 619.8
31	4	1	957.72	.66	1	57 461.0	55	140 235.5	1 770.4
32	4	2	988.62	.67	2	59 314.6	2 00	146 331	1 928
33	5	3	1 019.51	.67	3	61 168.3	3 00	219 465	4 337
34	5	4	1 050.41	.68	4	63 022.0	4 00	292 561	7 709
49 35	30.895	35	1 081.30	1853.69	35	64 875.7	5 00	365 606	12 044
36	5	6	1 112.19	.69	6	66 729.4	6 00	438 588	17 340
37	5	7	1 143.09	.70	7	68 583.0	7 00	511 493	23 598
38	5	8	1 173.98	.70	8	70 436.7	8 00	584 310	30 815
39	5	9	1 204.88	.71	9	72 290.4	9 00	657 026	38 991
49 40	30.895	40	1 235.77	1853.71	40	74 144.2	10 00	729 627	48 123
41	5	1	1 266.67	.72	1	75 997.9	11 00	802 102	58 212
42	5	2	1 297.56	.72	2	77 851.6	12 00	874 438	69 254
43	5	3	1 328.46	.73	3	79 705.3	13 00	946 622	81 248
44	6	4	1 359.35	.73	4	81 559.1	14 00	1 018 642	94 191
49 45	30.896	45	1 390.24	1853.74	45	83 412.8	15 00	1 090 485	108 082
46	6	6	1 421.14	.75	6	85 266.5	16 00	1 162 138	122 918
47	6	7	1 452.03	.75	7	87 120.3	17 00	1 233 591	138 697
48	6	8	1 482.93	.76	8	88 974.0	18 00	1 304 829	155 416
49	6	9	1 513.82	.76	9	90 827.8	19 00	1 375 840	173 071
49 50	30.896	50	1 544.72	1853.77	50	92 681.6	20 00	1 446 613	191 660
51	6	1	1 575.61	.77	1	94 535.3	21 00	1 517 135	211 180
52	6	2	1 606.50	.78	2	96 389.1	22 00	1 587 394	231 627
53	6	3	1 637.40	.78	3	98 242.9	23 00	1 657 378	252 998
54	6	4	1 668.29	.79	4	100 096.7	24 00	1 727 073	275 288
49 55	30.897	55	1 699.19	1853.79	55	101 950.5	25 00	1 796 470	298 495
56	7	6	1 730.08	.80	6	103 804.3	26 00	1 865 554	322 614
57	7	7	1 760.98	.80	7	105 658.1	27 00	1 934 315	347 640
58	7	8	1 791.87	.81	8	107 511.9	28 00	2 002 740	373 570
59	7	9	1 822.76	.82	9	109 365.7	29 00	2 070 817	400 399
49 60	30.897	60	1 853.66	1853.82	60	111 219.5	30 00	2 138 536	428 123

Latitude 50° to 51°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
50 00	19.916	39.83	59.75	79.66	99.58	119.50	139.41	159.33	179.24	1195.0	2389.9	3584.9	4779.9	5974.8
1	.909	.82	.73	.64	.55	.46	.36	.27	.18	4.6	9.1	3.7	8.2	2.8
2	.902	.80	.71	.61	.51	.41	.31	.22	.12	4.1	8.3	2.4	6.6	70.7
3	.895	.79	.69	.58	.48	.37	.27	.16	9.06	3.7	7.4	81.2	4.9	68.6
4	.889	.78	.67	.55	.44	.33	.22	.11	9.00	3.3	6.6	79.9	3.2	6.6
50 05	19.882	39.76	59.64	79.53	99.41	119.29	139.17	159.05	178.93	1192.9	2385.8	3578.7	4771.6	5964.5
6	.875	.75	.62	.50	.38	.25	.12	9.00	.87	2.5	5.0	7.5	69.9	2.4
7	.868	.74	.60	.47	.34	.21	.07	8.94	.81	2.1	4.2	6.2	8.3	60.4
8	.861	.72	.58	.44	.31	.17	9.03	.89	.75	1.7	3.3	5.0	6.6	58.3
9	.854	.71	.56	.42	.27	.12	8.98	.83	.68	1.2	2.5	3.7	5.0	6.2
50 10	19.847	39.69	59.54	79.39	99.24	119.08	138.93	158.78	178.62	1190.8	2381.7	3572.5	4763.3	5954.2
11	.840	.68	.52	.36	.21	.04	.88	.72	.56	0.4	0.8	1.3	1.7	2.1
12	.833	.67	.50	.33	.17	9.00	.83	.67	.50	90.0	80.0	70.0	60.0	50.0
13	.826	.65	.48	.31	.14	8.96	.79	.61	.44	89.6	79.2	68.8	58.3	47.9
14	.820	.64	.46	.28	.10	.92	.74	.56	.37	9.2	8.3	7.5	6.7	5.9
50 15	19.813	39.63	59.44	79.25	99.07	118.88	138.69	158.50	178.31	1188.8	2377.5	3566.3	4755.0	5943.8
16	.806	.61	.42	.22	.03	.83	.64	.45	.25	8.3	6.7	5.0	3.4	41.7
17	.799	.60	.40	.20	9.00	.79	.59	.39	.19	7.9	5.9	3.8	1.7	39.6
18	.792	.58	.38	.17	8.96	.75	.55	.34	.13	7.5	5.0	2.5	50.1	7.6
19	.785	.57	.35	.14	.93	.71	.50	.28	.06	7.1	4.2	1.3	48.4	5.5
50 20	19.778	39.56	59.33	79.11	98.89	118.67	138.45	158.22	178.00	1186.7	2373.4	3560.1	4746.7	5933.4
21	.771	.54	.31	.09	.86	.63	.40	.17	7.94	6.3	2.6	58.8	5.1	31.4
22	.764	.53	.29	.06	.82	.59	.35	.11	.88	5.9	1.7	7.6	3.4	29.3
23	.757	.51	.27	.03	.79	.54	.30	.06	.81	5.4	0.9	6.3	1.8	7.2
24	.750	.50	.25	9.00	.75	.50	.25	8.00	.75	5.0	70.0	5.1	40.1	5.1
50 25	19.743	39.49	59.23	78.97	98.72	118.46	138.21	157.95	177.69	1184.6	2369.2	3553.8	4738.4	5923.0
26	.737	.47	.21	.95	.68	.42	.16	.89	.63	4.2	8.4	2.6	6.8	21.0
27	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.3	5.1	18.9
28	.723	.45	.17	.89	.61	.34	.06	.78	.50	3.4	6.7	50.1	3.4	6.8
29	.716	.43	.15	.86	.58	.29	8.01	.73	.44	2.9	5.9	48.8	1.8	4.7
50 30	19.709	39.42	59.13	78.84	98.54	118.25	137.96	157.67	177.38	1182.5	2365.1	3547.6	4730.1	5912.6
31	.702	.40	.11	.81	.51	.21	.91	.61	.32	2.1	4.2	6.3	28.4	10.6
32	.695	.39	.09	.78	.47	.17	.86	.56	.25	1.7	3.4	5.1	6.8	08.5
33	.688	.38	.06	.75	.44	.13	.82	.50	.19	1.3	2.6	3.8	5.1	6.4
34	.681	.36	.04	.72	.40	.09	.77	.45	.13	0.9	1.7	2.6	3.5	4.3
50 35	19.674	39.35	59.02	78.70	98.37	118.04	137.72	157.39	177.06	1180.4	2360.9	3541.3	4721.8	5902.2
36	.667	.33	9.00	.67	.34	8.00	.67	.34	7.00	80.0	60.1	40.1	20.1	900.1
37	.660	.32	8.98	.64	.30	7.96	.62	.28	6.94	79.6	59.2	38.8	18.5	898.1
38	.653	.31	.96	.61	.27	.92	.58	.23	.88	9.2	8.4	7.6	6.8	6.0
39	.646	.29	.94	.58	.23	.88	.53	.17	.81	8.8	7.5	6.3	5.1	3.9
50 40	19.639	39.28	58.92	78.56	98.20	117.84	137.48	157.12	176.75	1178.4	2356.7	3535.1	4713.5	5891.8
41	.632	.26	.90	.53	.16	.79	.43	.06	.69	7.9	5.9	3.8	1.8	89.7
42	.625	.25	.88	.50	.13	.75	.38	7.00	.63	7.5	5.1	2.6	10.1	7.6
43	.618	.24	.86	.47	.10	.71	.33	6.95	.56	7.1	4.2	1.3	08.4	5.5
44	.612	.22	.84	.45	.06	.67	.28	.89	.50	6.7	3.4	30.1	6.8	3.5
50 45	19.605	39.21	58.81	78.42	98.03	117.63	137.24	156.84	176.44	1176.3	2352.6	3528.8	4705.1	5881.4
46	.598	.20	.79	.39	7.99	.59	.19	.78	.38	5.9	1.7	7.6	3.4	79.3
47	.591	.18	.77	.36	.95	.54	.14	.73	.32	5.4	0.9	6.1	1.8	7.2
48	.584	.17	.75	.34	.92	.50	.09	.67	.25	5.0	50.1	5.1	700.1	5.1
49	.577	.15	.73	.31	.89	.46	7.04	.61	.19	4.6	49.2	3.8	698.4	3.0
50 50	19.570	39.14	58.71	78.28	97.85	117.42	136.99	156.56	176.13	1174.2	2348.4	3522.6	4696.7	5870.9
51	.563	.13	.69	.25	.82	.38	.94	.50	.07	3.8	7.6	1.3	5.1	68.8
52	.556	.11	.67	.22	.78	.33	.89	.45	6.00	3.3	6.7	20.0	3.4	6.7
53	.549	.10	.65	.20	.75	.29	.84	.39	5.94	2.9	5.9	18.8	1.7	4.6
54	.542	.08	.63	.17	.71	.25	.79	.33	.88	2.5	5.0	7.5	90.0	2.6
50 55	19.535	39.07	58.60	78.14	97.68	117.21	136.75	156.28	175.81	1172.1	2344.2	3516.3	4688.4	5860.5
56	.528	.06	.58	.11	.64	.17	.70	.22	.75	1.7	3.4	5.0	6.7	58.4
57	.521	.04	.56	.08	.61	.13	.65	.17	.69	1.3	2.5	3.8	5.0	6.3
58	.514	.03	.54	.06	.57	.08	.60	.11	.63	0.8	1.7	2.5	3.3	4.2
59	.507	.01	.52	.03	.54	.04	.55	.06	.56	0.4	0.8	1.3	1.7	2.1
50 60	19.500	39.00	58.50	78.00	97.50	117.00	136.50	156.00	175.50	1170.0	2340.0	3510.0	4680.0	5850.0

Lat.	Latitude 50° to 51°—Meridional arcs						Latitude 50°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 50°30'		Value of 1'	Continuous sums of minutes from latitude 50°00'		Longitude	X	Y
		Meters	''		Meters	Meters			
50 00	30.897			1853.82			0 1	1 195.0	0.1
1	7	1	30.90	.83	1	1 853.8	0 2	2 389.9	0.5
2	7	2	61.80	.83	2	3 707.7	0 3	3 584.9	1.2
3	7	3	92.70	.84	3	5 561.5	0 4	4 779.9	2.1
4	7	4	123.60	.84	4	7 415.3			
50 05	30.897	5	154.50	1853.85	5	9 269.2	0 5	5 974.8	3.3
6	8	6	185.40	.85	6	11 123.0	0 6	7 169.8	4.8
7	8	7	216.30	.86	7	12 976.9	0 7	8 364.8	6.5
8	8	8	247.20	.86	8	14 830.7	0 8	9 559.7	8.5
9	8	9	278.10	.87	9	16 684.6	0 9	10 754.7	10.8
50 10	30.898	10	309.00	1853.88	10	18 538.5	0 10	11 949.7	13.3
11	8	1	339.90	.88	1	20 392.4	0 15	17 924.5	30.0
12	8	2	370.80	.89	2	22 246.2	0 20	23 899.3	53.3
13	8	3	401.70	.89	3	24 100.1	0 25	29 874.1	83.2
14	8	4	432.60	.90	4	25 954.0	0 30	35 848.8	119.8
50 15	30.898	15	463.50	1853.90	15	27 807.9	0 35	41 823.5	163.1
16	8	6	494.40	.91	6	29 661.8	0 40	47 798.1	213.0
17	9	7	525.30	.91	7	31 515.7	0 45	53 772.7	269.6
18	9	8	556.19	.92	8	33 369.7	0 50	59 747.2	332.8
19	9	9	587.09	.92	9	35 223.6	0 55	65 721.6	402.8
50 20	30.899	20	617.99	1853.93	20	37 077.5	1 00	71 696.0	479.3
21	9	1	648.89	.93	1	38 931.4	1 05	77 670.2	562.5
22	9	2	679.79	.94	2	40 785.4	1 10	83 644.4	652.4
23	9	3	710.69	.95	3	42 639.3	1 15	89 618.5	748.9
24	9	4	741.59	.95	4	44 493.3	1 20	95 592.4	852.1
50 25	30.899	25	772.49	1853.96	25	46 347.2	1 25	101 566.2	961.9
26	9	6	803.39	.96	6	48 201.2	1 30	107 540.0	1 078.4
27	899	7	834.29	.97	7	50 055.2	1 35	113 513.5	1 201.5
28	900	8	865.19	.97	8	51 909.1	1 40	119 486.9	1 331.3
29	0	9	896.09	.98	9	53 763.1	1 45	125 460.2	1 467.8
50 30	30.900	30	926.99	1853.98	30	55 617.1	1 50	131 433.3	1 610.9
31	0	1	957.89	.99	1	57 471.0	1 55	137 406.3	1 760.7
32	0	2	988.79	3.99	2	59 325.0	2 00	143 379	1 917
33	0	3	1 019.69	4.00	3	61 179.0	2 05	149 352	2 084
34	0	4	1 050.59	.00	4	63 033.0	2 10	155 325	2 251
50 35	30.900	35	1 081.49	1854.01	35	64 887.0	5 00	358 224	11 978
36	0	6	1 112.39	.02	6	66 741.1	6 00	429 727	17 246
37	0	7	1 143.29	.02	7	68 595.1	7 00	501 154	23 469
38	0	8	1 174.19	.03	8	70 449.1	8 00	572 492	30 646
39	1	9	1 205.09	.03	9	72 303.2	9 00	643 727	38 777
50 40	30.901	40	1 235.99	1854.04	40	74 157.2	10 00	714 847	47 859
41	1	1	1 266.89	.04	1	76 011.2	11 00	785 839	57 891
42	1	2	1 297.79	.05	2	77 865.2	12 00	856 691	68 872
43	1	3	1 328.69	.05	3	79 719.3	13 00	927 389	80 798
44	1	4	1 359.59	.06	4	81 573.4	14 00	997 922	93 669
50 45	30.901	45	1 390.49	1854.06	45	83 427.4	15 00	1 068 277	107 482
46	1	6	1 421.39	.07	6	85 281.5	16 00	1 138 440	122 234
47	1	7	1 452.29	.07	7	87 135.6	17 00	1 208 400	137 923
48	1	8	1 483.19	.08	8	88 989.6	18 00	1 278 144	154 546
49	1	9	1 514.09	.09	9	90 843.7	19 00	1 347 660	172 099
50 50	30.902	50	1 544.99	1854.09	50	92 697.8	20 00	1 416 934	190 581
51	2	1	1 575.89	.10	1	94 551.9	21 00	1 485 956	209 987
52	2	2	1 606.79	.10	2	96 406.0	22 00	1 554 711	230 314
53	2	3	1 637.69	.11	3	98 260.1	23 00	1 623 189	251 559
54	2	4	1 668.58	.11	4	100 114.2	24 00	1 691 377	273 717
50 55	30.902	55	1 699.48	1854.12	55	101 968.4	25 00	1 759 262	296 785
56	2	6	1 730.38	.12	6	103 822.5	26 00	1 826 833	320 758
57	2	7	1 761.28	.13	7	105 676.6	27 00	1 894 077	345 633
58	2	8	1 792.18	.13	8	107 530.7	28 00	1 960 983	371 404
59	2	9	1 823.08	.14	9	109 384.9	29 00	2 027 538	398 068
50 60	30.902	60	1 853.98	1854.14	60	111 239.0	30 00	2 093 731	425 619

Latitude 51° to 52°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
51 00	19.500	39.00	58.50	78.00	97.50	117.00	136.50	156.00	175.50	1170.0	2340.0	3510.0	4680.0	5850.0
1	.493	8.99	.48	7.97	.47	6.96	.45	5.94	.44	69.6	39.2	08.7	78.3	47.9
2	.486	.97	.46	.94	.43	.92	.40	.89	.37	9.2	8.3	7.5	6.6	5.8
3	.479	.96	.44	.92	.40	.87	.35	.83	.31	8.7	7.5	6.2	5.0	3.7
4	.472	.94	.42	.89	.36	.83	.30	.78	.25	8.3	6.6	5.0	3.3	41.6
51 05	19.465	38.93	58.39	77.86	97.33	116.79	136.26	155.72	175.18	1167.9	2335.8	3503.7	4671.6	5839.5
6	.458	.92	.37	.83	.29	.75	.21	.66	.12	7.5	5.0	2.4	69.9	7.4
7	.451	.90	.35	.80	.26	.71	.16	.61	.06	7.1	4.1	501.2	8.2	5.3
8	.444	.89	.33	.78	.22	.66	.11	.55	5.00	6.6	3.3	499.9	6.6	3.2
9	.437	.87	.31	.75	.19	.62	.06	.50	4.93	6.2	2.4	8.7	4.9	31.1
51 10	19.430	38.86	58.29	77.72	97.15	116.58	136.01	155.44	174.87	1165.8	2331.6	3497.4	4663.2	5829.0
11	.423	.85	.27	.69	.12	.54	5.96	.38	.81	5.4	30.3	6.1	61.5	6.9
12	.416	.83	.25	.66	.08	.50	.91	.33	.74	5.0	29.9	4.9	59.8	4.8
13	.409	.82	.23	.64	.05	.45	.86	.27	.68	4.5	9.1	3.6	8.2	2.7
14	.402	.80	.21	.61	7.01	.41	.81	.22	.62	4.1	8.2	2.4	6.5	20.6
51 15	19.395	38.79	58.18	77.58	96.98	116.37	135.77	155.16	174.55	1163.7	2327.4	3491.1	4654.8	5818.5
16	.388	.78	.16	.55	.94	.33	.72	.10	.49	3.3	6.6	89.8	3.1	6.4
17	.381	.76	.14	.52	.91	.29	.67	5.05	.43	2.9	5.7	8.6	51.4	4.3
18	.374	.75	.12	.50	.87	.24	.62	4.99	.37	2.4	4.9	7.3	49.7	2.2
19	.367	.73	.10	.47	.84	.20	.57	.94	.30	2.0	4.0	6.0	8.1	10.1
51 20	19.360	38.72	58.08	77.44	96.80	116.16	135.52	154.88	174.24	1161.6	2323.2	3484.8	4646.4	5808.0
21	.353	.71	.06	.41	.77	.12	.47	.32	.18	1.2	2.4	3.5	4.7	5.9
22	.346	.69	.04	.38	.73	.08	.42	.77	.11	0.8	1.5	2.3	3.0	3.8
23	.339	.68	.02	.36	.70	6.03	.37	.71	4.05	60.3	20.7	81.0	41.3	801.7
24	.332	.66	8.00	.33	.66	5.99	.32	.65	3.99	59.9	19.8	79.7	39.6	799.5
51 25	19.325	38.65	57.97	77.30	96.63	115.95	135.28	154.60	173.92	1159.5	2319.0	3478.5	4638.0	5797.4
26	.318	.64	.95	.27	.59	.91	.23	.54	.86	9.1	8.2	7.2	6.3	5.3
27	.311	.62	.93	.24	.55	.86	.18	.49	.80	8.6	7.3	5.9	4.6	3.2
28	.304	.61	.91	.22	.52	.82	.13	.43	.74	8.2	6.5	4.7	2.9	91.1
29	.297	.59	.89	.19	.49	.78	.08	.37	.67	7.8	5.6	3.4	31.2	89.0
51 30	19.290	38.58	57.87	77.16	96.45	115.74	135.03	154.32	173.61	1157.4	2314.8	3472.1	4629.5	5786.9
31	.283	.57	.85	.13	.42	.70	4.98	.26	.55	7.0	3.9	70.9	7.8	4.8
32	.276	.55	.83	.10	.38	.65	.93	.20	.48	6.5	3.1	69.6	6.1	2.7
33	.269	.54	.81	.07	.35	.61	.88	.15	.42	6.1	2.2	8.3	4.4	80.6
34	.261	.52	.78	.05	.31	.57	.83	.09	.35	5.7	1.4	7.1	2.8	78.4
51 35	19.254	38.51	57.76	77.02	96.28	115.53	134.78	154.04	173.29	1155.3	2310.5	3465.8	4621.1	5776.3
36	.247	.49	.74	6.99	.24	.48	.73	3.98	.23	4.8	09.7	4.5	19.4	4.2
37	.240	.48	.72	.96	.21	.44	.68	.92	.16	4.4	8.8	3.3	7.7	2.1
38	.233	.47	.70	.93	.17	.40	.63	.87	.10	4.0	8.0	2.0	6.0	70.0
39	.226	.45	.68	.90	.14	.36	.58	.81	3.03	3.6	7.1	60.7	4.3	67.9
51 40	19.219	38.44	57.66	76.88	96.10	115.32	134.53	153.75	172.97	1153.2	2306.3	3459.5	4612.6	5765.8
41	.212	.42	.64	.85	.06	.27	.48	.70	.91	2.7	5.5	8.2	10.9	3.7
42	.205	.41	.62	.82	6.03	.23	.43	.64	.84	2.3	4.6	6.9	09.2	61.5
43	.198	.40	.59	.79	5.99	.19	.38	.58	.78	1.9	3.8	5.6	7.5	59.4
44	.191	.38	.57	.76	.96	.15	.33	.53	.72	1.5	2.9	4.4	5.8	7.3
51 45	19.184	38.37	57.55	76.74	95.92	115.10	134.29	153.47	172.65	1151.0	2302.1	3453.1	4604.1	5755.2
46	.177	.35	.53	.71	.88	.06	.24	.41	.59	0.6	1.2	1.8	2.4	3.1
47	.170	.34	.51	.68	.85	5.02	.19	.36	.53	50.2	300.4	50.6	600.8	50.9
48	.163	.33	.49	.65	.81	4.98	.14	.30	.47	49.8	299.5	49.3	599.1	48.8
49	.156	.31	.47	.62	.78	.93	.09	.25	.40	9.3	8.7	8.0	7.4	6.7
51 50	19.149	38.30	57.45	76.59	95.74	114.89	134.04	153.19	172.34	1148.9	2297.8	3446.8	4595.7	5744.6
51	.142	.28	.43	.57	.71	.85	3.99	.13	.28	8.5	7.0	5.5	4.0	2.5
52	.134	.27	.40	.54	.67	.81	.94	.08	.21	8.1	6.1	4.2	2.3	40.3
53	.127	.25	.38	.51	.64	.76	.89	3.02	.15	7.6	5.3	2.9	90.6	38.2
54	.120	.24	.36	.48	.60	.72	.84	2.96	.08	7.2	4.4	1.7	88.9	6.1
51 55	19.113	38.23	57.34	76.45	95.57	114.68	133.80	152.91	172.02	1146.8	2293.6	3440.4	4587.2	5734.0
56	.106	.21	.32	.42	.53	.64	.75	.85	1.96	6.4	2.7	39.1	5.5	31.8
57	.099	.20	.30	.40	.50	.59	.70	.79	.89	5.9	1.9	7.8	3.8	29.7
58	.092	.18	.28	.37	.46	.55	.65	.74	.83	5.5	1.0	6.6	2.1	7.6
59	.085	.17	.25	.34	.43	.51	.60	.68	.76	5.1	90.2	5.3	80.4	5.5
51 60	19.078	38.16	57.23	76.31	95.39	114.47	133.55	152.62	171.70	1144.7	2289.3	3434.0	4578.7	5723.4

Lat.	Latitude 51° to 52°—Meridional arcs						Latitude 51°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 51°30'		Value of 1'	Continuous sums of minutes from latitude 51°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
51 00	30.902			1854.14			0 1	1 170.0	0.1
1	3	1	30.91	.15	1	1 854.1	2	2 340.0	0.5
2	3	2	61.81	.16	2	3 708.3	3	3 510.0	1.2
3	3	3	92.72	.16	3	5 562.5	4	4 680.0	2.1
4	3	4	123.62	.17	4	7 416.6			
51 05	30.903	5	154.53	1854.17	5	9 270.8	0 5	5 850.0	3.3
6	3	6	185.43	.18	6	11 125.0	6	7 020.0	4.8
7	3	7	216.34	.18	7	12 979.1	7	8 190.0	6.5
8	3	8	247.24	.19	8	14 833.3	8	9 360.0	8.5
9	3	9	278.15	.19	9	16 687.5	9	10 530.0	10.7
51 10	30.903	10	309.05	1854.20	10	18 541.7	0 10	11 700.0	13.2
11	3	1	339.96	.20	1	20 395.9	15	17 550.0	29.8
12	3	2	370.86	.21	2	22 250.1	20	23 399.9	52.9
13	4	3	401.77	.21	3	24 104.3	25	29 249.9	82.7
14	4	4	432.67	.22	4	25 958.6	30	35 099.7	119.0
51 15	30.904	15	463.58	1854.23	15	27 812.8	0 35	40 949.6	162.0
16	4	6	494.48	.23	6	29 667.0	40	46 799.4	211.6
17	4	7	525.39	.24	7	31 521.2	45	52 649.1	267.8
18	4	8	556.29	.24	8	33 375.5	50	58 498.8	330.6
19	4	9	587.20	.25	9	35 229.7	55	64 348.4	400.0
51 20	30.904	20	618.10	1854.25	20	37 084.0	1 00	70 197.9	476.1
21	4	1	649.01	.26	1	38 938.2	05	76 047.3	558.7
22	4	2	679.91	.26	2	40 792.5	10	81 896.6	648.0
23	4	3	710.82	.27	3	42 646.8	15	87 745.8	743.9
24	5	4	741.72	.27	4	44 501.0	20	93 594.9	846.4
51 25	30.905	25	772.63	1854.28	25	46 355.3	1 25	99 443.9	955.5
26	5	6	803.53	.28	6	48 209.6	30	105 292.8	1 071.2
27	5	7	834.44	.29	7	50 063.9	35	111 141.5	1 193.5
28	5	8	865.34	.29	8	51 918.2	40	116 990.1	1 322.4
29	5	9	896.25	.30	9	53 772.5	45	122 838.5	1 458.0
51 30	30.905	30	927.15	1854.31	30	55 626.8	1 50	128 686.8	1 600.1
31	5	1	958.06	.31	1	57 481.1	55	134 534.9	1 748.9
32	5	2	988.96	.32	2	59 335.4	2 00	140 383	1 904
33	5	3	1 019.87	.32	3	61 189.7	3 00	210 542	4 284
34	5	4	1 050.77	.33	4	63 044.0	4 00	280 662	7 616
51 35	30.906	35	1 081.68	1854.33	35	64 898.4	5 00	350 731	11 898
36	6	6	1 112.58	.34	6	66 752.7	6 00	420 735	17 130
37	6	7	1 143.49	.34	7	68 607.0	7 00	490 662	23 311
38	6	8	1 174.39	.35	8	70 461.4	8 00	560 499	30 440
39	6	9	1 205.30	.35	9	72 315.7	9 00	630 232	38 515
51 40	30.906	40	1 236.20	1854.36	40	74 170.1	10 00	699 850	47 536
41	6	1	1 267.11	.36	1	76 024.5	11 00	769 338	57 500
42	6	2	1 298.01	.37	2	77 878.8	12 00	838 686	68 405
43	6	3	1 328.92	.38	3	79 733.2	13 00	907 879	80 251
44	6	4	1 359.82	.38	4	81 587.6	14 00	976 904	93 033
51 45	30.906	45	1 390.73	1854.39	45	83 442.0	15 00	1 045 751	106 751
46	7	6	1 421.63	.39	6	85 296.3	16 00	1 114 404	121 401
47	7	7	1 452.54	.40	7	87 150.7	17 00	1 182 853	136 981
48	7	8	1 483.44	.40	8	89 005.1	18 00	1 251 034	153 488
49	7	9	1 514.35	.41	9	90 859.5	19 00	1 319 085	170 919
51 50	30.907	50	1 545.25	1854.41	50	92 713.9	20 00	1 386 844	189 270
51	7	1	1 576.16	.42	1	94 568.4	21 00	1 454 347	208 589
52	7	2	1 607.06	.42	2	96 422.8	22 00	1 521 582	228 722
53	7	3	1 637.97	.43	3	98 277.2	23 00	1 588 538	249 815
54	7	4	1 668.88	.43	4	100 131.6	24 00	1 655 201	271 814
51 55	30.907	55	1 699.78	1854.44	55	101 986.1	25 00	1 721 561	294 715
56	7	6	1 730.69	.44	6	103 840.5	26 00	1 787 603	318 514
57	8	7	1 761.59	.45	7	105 695.0	27 00	1 853 316	343 206
58	8	8	1 792.50	.46	8	107 549.4	28 00	1 918 688	368 788
59	8	9	1 823.40	.46	9	109 403.9	29 00	1 983 708	395 254
51 60	30.908	60	1 854.31	1854.47	60	111 258.3	30 00	2 048 362	422 600

Latitude 52° to 53°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
52 00	19.078	38.16	57.23	76.31	95.39	114.47	133.55	152.62	171.70	1144.7	2289.3	3434.0	4578.7	5723.4
1	.071	.14	.21	.28	.36	.42	.50	.57	.64	4.2	8.5	12.7	17.0	21.2
2	.064	.13	.19	.25	.32	.38	.45	.51	.57	3.8	7.6	11.5	15.3	19.1
3	.057	.11	.17	.23	.29	.34	.40	.45	.51	3.4	6.8	10.2	13.6	17.0
4	.049	.10	.15	.20	.25	.30	.35	.40	.44	3.0	5.9	8.9	11.9	14.8
52 05	19.042	38.08	57.13	76.17	95.22	114.25	133.30	152.34	171.38	1142.5	2285.1	3427.6	4570.2	5712.7
6	.035	.07	.11	.14	.18	.21	.25	.28	.32	2.1	4.2	6.4	8.5	10.6
7	.028	.06	.08	.11	.14	.17	.20	.23	.25	1.7	3.4	5.1	6.8	8.5
8	.021	.04	.06	.08	.11	.13	.15	.17	.19	1.3	2.5	3.8	5.1	6.3
9	.014	.03	.04	.06	.07	.08	.10	.11	.12	0.8	1.7	2.5	3.4	4.2
52 10	19.007	38.01	57.02	76.03	95.04	114.04	133.05	152.06	171.06	1140.4	2280.8	3421.3	4561.7	5702.1
11	9.000	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	40.0	80.0	120.0	160.0	199.9
12	8.993	7.99	6.98	5.97	4.97	3.96	2.95	1.94	0.93	39.6	79.1	118.7	158.3	197.8
13	.986	.97	.96	.94	.93	.91	.90	.88	.87	9.1	18.3	27.4	36.5	45.7
14	.979	.96	.94	.91	.90	.87	.85	.83	.81	8.7	17.4	26.1	34.8	43.6
52 15	18.971	37.94	56.91	75.89	94.86	113.83	132.80	151.77	170.74	1138.3	2276.6	3414.9	4553.1	5691.4
16	.964	.93	.89	.86	.82	.79	.75	.71	.68	7.9	15.7	23.6	31.4	39.3
17	.957	.92	.87	.83	.79	.74	.70	.66	.61	7.4	14.9	22.3	29.7	37.2
18	.950	.90	.85	.80	.75	.70	.65	.60	.55	7.0	14.0	21.0	28.0	35.0
19	.943	.89	.83	.77	.72	.66	.60	.54	.48	6.6	13.2	19.7	26.3	32.9
52 20	18.936	37.87	56.81	75.74	94.68	113.62	132.55	151.49	170.42	1136.2	2272.3	3408.5	4544.6	5680.8
21	.929	.86	.79	.71	.64	.57	.50	.43	.36	5.7	11.4	17.2	22.9	28.6
22	.922	.84	.77	.69	.61	.53	.45	.37	.29	5.3	10.6	15.9	21.2	26.5
23	.914	.83	.74	.66	.57	.49	.40	.32	.23	4.9	9.7	14.6	19.5	24.3
24	.907	.81	.72	.63	.54	.44	.35	.26	.16	4.4	8.9	13.3	17.8	22.2
52 25	18.900	37.80	56.70	75.60	94.50	113.40	132.30	151.20	170.10	1134.0	2268.0	3402.0	4536.0	5670.1
26	.893	.79	.68	.57	.46	.36	.25	.14	0.04	3.6	7.2	10.8	14.3	17.9
27	.886	.77	.66	.54	.43	.32	.20	.09	0.97	3.2	6.3	9.5	12.6	15.8
28	.879	.76	.64	.52	.39	.27	.15	1.03	.91	2.7	5.5	8.2	10.9	13.7
29	.872	.74	.61	.49	.36	.23	.10	0.97	.84	2.3	4.6	6.9	9.2	11.5
52 30	18.865	37.73	56.59	75.46	94.32	113.19	132.05	150.92	169.78	1131.9	2263.8	3395.6	4527.5	5659.4
31	.857	.71	.57	.43	.29	.14	2.00	.86	.72	1.4	2.9	4.3	5.8	7.2
32	.850	.70	.55	.40	.25	.10	1.95	.80	.65	1.0	2.1	3.1	4.1	5.1
33	.843	.69	.53	.37	.22	.06	.90	.75	.59	0.6	1.2	1.8	2.4	2.9
34	.836	.67	.51	.35	.18	3.02	.85	.69	.52	30.2	60.3	90.5	120.6	150.8
52 35	18.829	37.66	56.49	75.32	94.15	112.97	131.80	150.63	169.46	1129.7	2259.5	3389.2	4518.9	5648.7
36	.822	.64	.46	.29	.11	.93	.75	.57	.40	9.3	18.6	27.9	37.2	46.5
37	.815	.63	.44	.26	.08	.89	.70	.52	.33	8.9	17.8	26.6	35.4	44.4
38	.807	.61	.42	.23	.04	.84	.65	.46	.27	8.4	16.9	25.3	33.8	42.2
39	.800	.60	.40	.20	4.01	.80	.60	.40	.20	8.0	16.1	24.1	31.1	38.1
52 40	18.793	37.59	56.38	75.17	93.97	112.76	131.55	150.35	169.14	1127.6	2255.2	3382.8	4510.4	5638.0
41	.786	.57	.36	.14	.93	.72	.50	.29	.08	7.2	14.3	21.5	28.6	35.8
42	.779	.56	.34	.12	.90	.67	.45	.23	9.01	6.7	13.5	20.2	26.9	33.7
43	.772	.54	.31	.09	.86	.63	.40	.17	8.95	6.3	12.6	18.9	25.2	31.5
44	.765	.53	.29	.06	.83	.59	.35	.12	.88	5.9	11.8	17.6	23.5	29.4
52 45	18.757	37.51	56.27	75.03	93.79	112.54	131.30	150.06	168.82	1125.4	2250.9	3376.3	4501.8	5627.2
46	.750	.50	.25	5.00	.75	.50	.25	50.00	.75	5.0	10.0	15.0	20.0	25.0
47	.743	.49	.23	4.97	.72	.46	.20	49.94	.69	4.6	9.2	13.8	18.3	22.8
48	.736	.47	.21	.94	.68	.42	.15	.89	.62	4.2	8.3	12.5	16.6	20.8
49	.729	.46	.19	.92	.65	.37	.10	.83	.56	3.7	7.5	11.2	14.9	18.6
52 50	18.722	37.44	56.16	74.89	93.61	112.33	131.05	149.77	168.49	1123.3	2246.6	3369.9	4493.2	5616.5
51	.714	.43	.14	.86	.57	.29	0.00	.72	.43	2.9	5.7	8.6	11.6	14.3
52	.707	.41	.12	.83	.54	.24	.95	.66	.36	2.4	4.9	7.3	9.7	12.2
53	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.0	6.0	8.0	10.0
54	.693	.39	.08	.77	.47	.16	.85	.54	.23	1.6	3.2	4.7	6.3	7.9
52 55	18.686	37.37	56.06	74.74	93.43	112.11	130.80	149.49	168.17	1121.1	2242.3	3363.4	4484.6	5605.7
56	.678	.36	.03	.71	.39	.07	.75	.43	.10	0.7	1.4	2.1	2.9	3.4
57	.671	.34	6.01	.69	.36	2.03	.70	.37	8.04	20.3	40.6	60.9	81.1	101.4
58	.664	.33	5.99	.66	.32	1.99	.65	.31	7.98	19.9	39.7	59.6	79.4	99.3
59	.657	.31	.97	.63	.29	.94	.60	.26	.91	9.4	18.9	28.3	37.7	47.1
52 60	18.650	37.30	55.95	74.60	93.25	111.90	130.55	149.20	167.85	1119.0	2238.0	3357.0	4476.0	5595.0

Lat.	Latitude 52° to 53°—Meridional arcs						Latitude 52°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 52°30'		Value of 1'	Continuous sums of minutes from latitude 52°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
52 00	30.908			1854.47			0 1	1 144.7	0.1
1	8	1	30.91	.47	1	1 854.5	0 2	2 289.3	0.5
2	8	2	61.82	.48	2	3 708.9	0 3	3 434.0	1.2
3	8	3	92.73	.48	3	5 563.4	0 4	4 578.7	2.1
4	8	4	123.64	.49	4	7 417.9			
52 05	30.908	5	154.55	1854.49	5	9 272.4	0 5	5 723.4	3.3
6	8	6	185.46	.50	6	11 126.9	0 6	6 868.0	4.7
7	8	7	216.37	.50	7	12 981.4	0 7	8 012.7	6.4
8	8	8	247.28	.51	8	14 835.9	0 8	9 157.4	8.4
9	9	9	278.19	.51	9	16 690.4	0 9	10 302.0	10.6
52 10	30.909	10	309.10	1854.52	10	18 544.9	0 10	11 446.7	13.1
11	9	1	340.01	.52	1	20 399.4	0 15	17 170.0	29.5
12	9	2	370.93	.53	2	22 254.0	0 20	22 893.4	52.5
13	9	3	401.84	.54	3	24 108.5	0 25	28 616.6	82.0
14	9	4	432.75	.54	4	25 963.0	0 30	34 339.9	118.1
52 15	30.909	15	463.66	1854.55	15	27 817.6	0 35	40 063.1	160.7
16	9	6	494.57	.55	6	29 672.1	0 40	45 786.3	209.9
17	9	7	525.48	.56	7	31 526.7	0 45	51 509.4	265.7
18	9	8	556.39	.56	8	33 381.3	0 50	57 232.4	328.0
19	9	9	587.30	.57	9	35 235.8	0 55	62 955.3	396.9
52 20	30.910	20	618.21	1854.57	20	37 090.4	1 00	68 678.2	472.3
21	0	1	649.12	.58	1	38 945.0	05	74 401.0	554.3
22	0	2	680.03	.58	2	40 799.6	10	80 123.6	642.8
23	0	3	710.94	.59	3	42 654.1	15	85 846.2	737.9
24	0	4	741.85	.59	4	44 508.7	20	91 568.7	839.6
52 25	30.910	25	772.76	1854.60	25	46 363.3	1 25	97 291.0	947.8
26	0	6	803.67	.60	6	48 217.9	30	103 013.2	1 062.6
27	0	7	834.58	.61	7	50 072.5	35	108 735.3	1 184.0
28	0	8	865.49	.62	8	51 927.2	40	114 457.2	1 311.9
29	0	9	896.40	.62	9	53 781.8	45	120 179.0	1 446.3
52 30	30.910	30	927.31	1854.63	30	55 636.4	1 50	125 900.7	1 587.4
31	1	1	958.22	.63	1	57 491.0	55	131 622.1	1 735.0
32	1	2	989.13	.64	2	59 345.7	2 00	137 343	1 889
33	1	3	1 020.04	.64	3	61 200.3	3 00	205 982	4 250
34	1	4	1 050.95	.65	4	63 054.9	4 00	274 583	7 555
52 35	30.911	35	1 081.87	1854.65	35	64 909.6	5 00	343 131	11 803
36	1	6	1 112.78	.66	6	66 764.2	6 00	411 615	16 993
37	1	7	1 143.69	.66	7	68 618.9	7 00	480 020	23 124
38	1	8	1 174.60	.67	8	70 473.6	8 00	548 335	30 196
39	1	9	1 205.51	.67	9	72 328.2	9 00	616 546	38 207
52 40	30.911	40	1 236.42	1854.68	40	74 182.9	10 00	684 640	47 155
41	1	1	1 267.33	.68	1	76 037.6	11 00	752 605	57 039
42	1	2	1 298.24	.69	2	77 892.3	12 00	820 423	67 856
43	2	3	1 329.15	.69	3	79 747.0	13 00	888 095	79 605
44	2	4	1 360.06	.70	4	81 601.7	14 00	955 595	92 284
52 45	30.912	45	1 390.97	1854.71	45	83 456.4	15 00	1 022 913	105 890
46	2	6	1 421.88	.71	6	85 311.1	16 00	1 090 038	120 420
47	2	7	1 452.79	.72	7	87 165.8	17 00	1 156 957	135 872
48	2	8	1 483.70	.72	8	89 020.5	18 00	1 223 658	152 243
49	2	9	1 514.61	.73	9	90 875.3	19 00	1 290 126	169 530
52 50	30.912	50	1 545.52	1854.73	50	92 730.0	20 00	1 356 351	187 729
51	2	1	1 576.43	.74	1	94 584.7	21 00	1 422 219	206 838
52	2	2	1 607.34	.74	2	96 439.5	22 00	1 488 013	226 852
53	2	3	1 638.25	.75	3	98 294.2	23 00	1 553 436	247 767
54	3	4	1 669.16	.75	4	100 149.0	24 00	1 618 559	269 580
52 55	30.913	55	1 700.07	1854.76	55	102 003.7	25 00	1 683 377	292 287
56	3	6	1 730.98	.76	6	103 858.5	26 00	1 747 876	315 883
57	3	7	1 761.89	.77	7	105 713.3	27 00	1 812 045	340 364
58	3	8	1 792.81	.77	8	107 568.0	28 00	1 875 870	365 725
59	3	9	1 823.72	.78	9	109 422.8	29 00	1 939 342	391 961
52 60	30.913	60	1 854.63	1854.78	60	111 277.6	30 00	2 002 446	419 068

Latitude 53° to 54°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
53 00	18.650	37.30	55.95	74.60	93.25	111.90	130.55	149.20	167.85	1119.0	2238.0	3357.0	4476.0	5595.0
1	.643	.29	.93	.57	.21	.86	.50	.14	.79	8.6	7.1	5.7	4.2	2.8
2	.635	.27	.91	.54	.18	.81	.45	.08	.72	8.1	6.3	4.4	2.5	90.6
3	.628	.26	.88	.51	.14	.77	.40	9.03	.66	7.7	5.4	3.1	70.8	88.5
4	.621	.24	.86	.49	.11	.73	.35	8.97	.59	7.3	4.6	1.8	69.1	6.3
53 05	18.614	37.23	55.84	74.46	93.07	111.68	130.30	148.91	167.53	1116.8	2233.7	3350.5	4467.3	5584.2
6	.607	.21	.82	.43	.03	.64	.25	.85	.46	6.4	2.8	49.2	5.6	82.0
7	.600	.20	.80	.40	3.00	.60	.20	.80	.40	6.0	2.0	7.9	3.9	79.9
8	.592	.18	.78	.37	2.96	.55	.15	.74	.33	5.5	1.1	6.6	2.2	7.7
9	.585	.17	.75	.34	.93	.51	.10	.68	.27	5.1	30.2	5.3	60.4	5.5
53 10	18.578	37.16	55.73	74.31	92.89	111.47	130.05	148.62	167.20	1114.7	2229.4	3344.0	4458.7	5573.4
11	.571	.14	.71	.28	.85	.42	30.00	.57	.14	4.2	8.5	2.7	7.0	71.2
12	.564	.13	.69	.25	.82	.38	29.95	.51	.07	3.8	7.6	1.4	5.2	69.1
13	.556	.11	.67	.23	.78	.34	.90	.45	7.01	3.4	6.3	40.1	3.5	6.9
14	.549	.10	.65	.20	.75	.29	.85	.39	6.94	2.9	5.9	38.8	1.8	4.7
53 15	18.542	37.08	55.63	74.17	92.71	111.25	129.79	148.34	166.88	1112.5	2225.0	3337.5	4450.1	5562.6
16	.535	.07	.60	.14	.67	.21	.74	.28	.81	2.1	4.1	6.2	48.3	60.4
17	.528	.06	.58	.11	.64	.17	.69	.22	.75	1.7	3.3	5.0	6.6	58.3
18	.520	.04	.56	.08	.60	.12	.64	.16	.68	1.2	2.4	3.7	4.9	6.1
19	.513	.03	.54	.05	.57	.08	.59	.10	.62	.08	1.6	2.4	3.1	3.9
53 20	18.506	37.01	55.52	74.02	92.53	111.04	129.54	148.05	166.55	1110.4	2220.7	3331.1	4441.4	5551.8
21	.499	7.00	.50	3.99	.49	0.99	.49	7.99	.49	09.9	19.8	29.8	39.7	49.6
22	.491	6.93	.47	.97	.46	.95	.44	.93	.42	9.5	9.0	8.5	8.0	7.4
23	.484	.97	.45	.94	.42	.91	.39	.87	.36	9.1	8.1	7.2	6.2	5.3
24	.477	.95	.43	.91	.39	.86	.34	.82	.29	8.6	7.3	5.9	4.5	3.1
53 25	18.470	36.94	55.41	73.88	92.35	110.82	129.29	147.76	166.23	1108.2	2216.4	3324.6	4432.8	5540.9
26	.463	.93	.39	.85	.31	.78	.24	.70	.16	7.8	5.5	3.3	31.0	38.8
27	.455	.91	.37	.82	.28	.73	.19	.64	.10	7.3	4.6	2.0	29.3	6.6
28	.448	.90	.34	.79	.24	.69	.14	.59	6.03	6.9	3.8	20.7	7.6	4.4
29	.441	.88	.32	.76	.21	.65	.09	.53	5.97	6.5	2.9	19.4	5.8	2.3
53 30	18.434	36.87	55.30	73.73	92.17	110.60	129.04	147.47	165.90	1106.0	2212.0	3318.1	4424.1	5530.1
31	.426	.85	.28	.70	.13	.56	8.99	.41	.84	5.6	1.2	6.8	2.3	27.9
32	.419	.84	.26	.68	.10	.52	.94	.35	.77	5.2	10.3	5.5	20.6	5.8
33	.412	.82	.24	.65	.06	.47	.89	.30	.71	4.7	09.4	4.2	18.9	3.6
34	.405	.81	.21	.62	2.03	.43	.84	.24	.64	4.3	8.6	2.9	7.1	21.4
53 35	18.398	36.80	55.19	73.59	91.99	110.39	128.78	147.18	165.53	1103.9	2207.7	3311.6	4415.4	5519.3
36	.390	.78	.17	.56	.95	.34	.73	.12	.51	3.4	6.8	10.2	3.7	7.1
37	.383	.77	.15	.53	.92	.30	.68	.06	.45	3.0	6.0	08.9	1.9	4.9
38	.376	.75	.13	.50	.88	.25	.63	7.01	.38	2.5	5.1	7.6	10.2	2.7
39	.369	.74	.11	.48	.85	.21	.58	6.95	.32	2.1	4.3	6.3	08.5	10.6
53 40	18.361	36.72	55.08	73.45	91.81	110.17	128.53	146.89	165.25	1101.7	2203.4	3305.0	4406.7	5508.4
41	.354	.71	.06	.42	.77	.12	.48	.83	.19	1.2	2.5	3.7	5.0	6.2
42	.347	.69	.04	.39	.74	.08	.43	.77	.12	0.8	1.6	2.4	3.2	4.0
43	.340	.68	.02	.36	.70	10.04	.38	.72	5.06	100.4	200.8	301.1	401.5	501.9
44	.332	.66	5.00	.33	.66	09.99	.33	.66	4.99	099.9	199.9	299.8	399.8	499.7
53 45	18.325	36.65	54.97	73.30	91.63	109.95	128.28	146.60	164.93	1099.5	2199.0	3298.5	4398.0	5497.5
46	.318	.64	.95	.27	.59	.91	.22	.54	.86	9.1	8.1	7.2	6.3	5.3
47	.311	.62	.93	.24	.55	.86	.17	.48	.80	8.6	7.3	5.9	4.5	3.2
48	.303	.61	.91	.21	.51	.82	.12	.43	.73	8.2	6.4	4.6	2.8	91.0
49	.296	.59	.89	.19	.48	.78	.07	.37	.67	7.8	5.6	3.3	1.1	88.8
53 50	18.289	36.58	54.87	73.16	91.44	109.73	128.02	146.31	164.60	1097.3	2194.7	3292.0	4389.3	5486.6
51	.282	.56	.85	.13	.40	.69	7.97	.25	.53	6.9	3.8	90.7	7.6	4.5
52	.274	.55	.82	.10	.37	.65	.92	.19	.47	6.5	2.9	89.4	5.8	2.3
53	.267	.53	.80	.07	.33	.60	.87	.14	.40	6.0	2.1	8.1	4.1	80.1
54	.260	.52	.78	.04	.30	.56	.82	.08	.34	5.6	1.2	6.7	2.3	77.9
53 55	18.252	36.50	54.76	73.01	91.26	109.51	127.76	146.02	164.27	1095.1	2190.3	3285.4	4380.6	5475.7
56	.245	.49	.74	2.98	.22	.47	.71	5.96	.21	4.7	89.4	4.1	78.8	3.6
57	.238	.48	.71	.95	.19	.43	.66	.90	.14	4.3	8.5	2.8	7.1	71.4
58	.231	.46	.69	.92	.15	.38	.61	.85	.07	3.8	7.7	1.5	5.4	69.2
59	.223	.45	.67	.89	.12	.34	.56	.79	4.01	3.4	6.8	80.2	3.6	7.0
53 60	18.216	36.43	54.65	72.86	91.08	109.30	127.51	145.73	163.94	1093.0	2185.9	3278.9	4371.9	5464.8

TERRESTRIAL ARCS

Lat.	Latitude 53° to 54°—Meridional arcs						Latitude 53°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 53°30'		Value of 1'	Continuous sums of minutes from latitude 53°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
53 00	30.913			1854.78			0 1	1 119.0	0.1
1	3	1	30.92	.79	1	1 854.8	0 2	2 238.0	0.5
2	3	2	61.83	.80	2	3 709.6	0 3	3 357.0	1.2
3	3	3	92.75	.80	3	5 564.4	0 4	4 476.0	2.1
4	3	4	123.66	.81	4	7 419.2			
53 05	30.914	5	154.58	1854.81	5	9 274.0	0 5	5 595.0	3.3
6	4	6	185.49	.82	6	11 128.8	0 6	6 714.0	4.7
7	4	7	216.41	.82	7	12 983.6	0 7	7 832.9	6.4
8	4	8	247.33	.83	8	14 838.5	0 8	8 951.9	8.3
9	4	9	278.24	.83	9	16 693.3	0 9	10 070.9	10.5
53 10	30.914	10	309.16	1854.84	10	18 548.1	0 10	11 189.9	13.0
11	4	1	340.07	.84	1	20 403.0	0 15	16 784.9	29.2
12	4	2	370.99	.85	2	22 257.8	0 20	22 379.8	52.0
13	4	3	401.90	.85	3	24 112.7	0 25	27 974.7	81.2
14	4	4	432.82	.86	4	25 967.5	0 30	33 569.5	117.0
53 15	30.914	15	463.74	1854.86	15	27 822.4	0 35	39 164.3	159.2
16	4	6	494.65	.87	6	29 677.2	0 40	44 759.1	208.0
17	5	7	525.57	.87	7	31 532.1	0 45	50 353.8	263.2
18	5	8	556.48	.88	8	33 387.0	0 50	55 948.4	325.0
19	5	9	587.40	.89	9	35 241.9	0 55	61 542.9	393.2
53 20	30.915	20	618.31	1854.89	20	37 096.8	1 00	67 137.4	467.9
21	5	1	649.23	.90	1	38 951.7	1 05	72 731.7	549.2
22	5	2	680.15	.90	2	40 806.6	1 10	78 326.0	636.9
23	5	3	711.06	.91	3	42 661.5	1 15	83 920.2	731.1
24	5	4	741.98	.91	4	44 516.4	1 20	89 514.2	831.8
53 25	30.915	25	772.89	1854.92	25	46 371.3	1 25	95 108.2	939.1
26	5	6	803.81	.92	6	48 226.2	1 30	100 702.0	1 052.8
27	5	7	834.72	.93	7	50 081.1	1 35	106 295.7	1 173.0
28	6	8	865.64	.93	8	51 936.1	1 40	111 889.2	1 299.7
29	6	9	896.56	.94	9	53 791.0	1 45	117 482.6	1 432.9
53 30	30.916	30	927.47	1854.94	30	55 645.9	1 50	123 075.8	1 572.6
31	6	1	958.39	.95	1	57 500.9	1 55	128 668.9	1 713.9
32	6	2	989.30	.95	2	59 355.8	2 00	134 262	1 872
33	6	3	1 020.22	.96	3	61 210.8	2 05	201 360	4 211
34	6	4	1 051.13	.96	4	63 065.8	2 10	268 419	7 485
53 35	30.916	35	1 082.05	1854.97	35	64 920.7	5 00	335 426	11 693
36	6	6	1 112.97	.97	6	66 775.7	6 00	402 368	16 835
37	6	7	1 143.88	.98	7	68 630.7	7 00	469 232	22 910
38	6	8	1 174.80	.99	8	70 485.6	8 00	536 004	29 916
39	7	9	1 205.71	4.99	9	72 340.6	9 00	602 672	37 852
53 40	30.917	40	1 236.63	1855.00	40	74 195.6	10 00	669 224	46 717
41	7	1	1 267.54	.00	1	76 050.6	11 00	735 645	56 508
42	7	2	1 298.46	.01	2	77 905.6	12 00	801 923	67 224
43	7	3	1 329.38	.01	3	79 766.6	13 00	868 046	78 863
44	7	4	1 360.29	.02	4	81 615.7	14 00	933 999	91 422
53 45	30.917	45	1 391.21	1855.02	45	83 470.7	15 00	999 772	104 900
46	7	6	1 422.12	.03	6	85 325.7	16 00	1 065 350	119 293
47	7	7	1 453.04	.03	7	87 180.7	17 00	1 130 721	134 598
48	7	8	1 483.95	.04	8	89 035.8	18 00	1 195 872	150 813
49	7	9	1 514.87	.04	9	90 890.8	19 00	1 260 791	167 935
53 50	30.917	50	1 545.79	1855.05	50	92 745.8	20 00	1 325 466	185 960
51	8	1	1 576.70	.05	1	94 600.9	21 00	1 389 882	204 885
52	8	2	1 607.62	.06	2	96 455.9	22 00	1 454 029	224 706
53	8	3	1 638.53	.06	3	98 311.0	23 00	1 517 893	245 418
54	8	4	1 669.45	.07	4	100 166.1	24 00	1 581 462	267 019
53 55	30.918	55	1 700.36	1855.07	55	102 021.1	25 00	1 644 724	289 504
56	8	6	1 731.28	.08	6	103 876.2	26 00	1 707 666	312 869
57	8	7	1 762.20	.08	7	105 731.3	27 00	1 770 277	337 109
58	8	8	1 793.11	.09	8	107 586.4	28 00	1 832 544	362 219
59	8	9	1 824.03	.10	9	109 441.5	29 00	1 894 455	388 194
53 60	30.918	60	1 854.94	1855.10	60	111 296.6	30 00	1 955 997	415 030

Latitude 54° to 55°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
54 00	18.216	36.43	54.65	72.86	91.08	109.30	127.51	145.73	163.94	1093.0	2185.9	3278.9	4371.9	5464.8
1	.209	.42	.63	.83	.04	.25	.46	.67	.88	2.5	5.0	7.6	70.1	2.7
2	.202	.40	.61	.81	1.01	.21	.41	.61	.81	2.1	4.2	6.3	68.4	60.5
3	.194	.39	.58	.78	0.97	.17	.36	.55	.75	1.7	3.3	5.0	6.6	58.3
4	.187	.37	.56	.75	.94	.12	.31	.50	.68	1.2	2.5	3.7	4.9	6.1
54 05	18.180	36.36	54.54	72.72	90.90	109.08	127.25	145.44	163.61	1090.8	2181.6	3272.3	4363.1	5453.9
6	.172	.34	.52	.69	.86	9.03	.20	.38	.55	90.3	80.7	71.0	61.4	51.7
7	.165	.33	.50	.66	.83	8.99	.15	.32	.48	89.9	79.8	69.7	59.6	49.5
8	.158	.32	.47	.63	.79	.95	.10	.26	.42	9.5	9.0	8.4	7.9	7.4
9	.151	.30	.45	.60	.76	.90	.05	.20	.35	9.0	8.1	7.1	6.1	5.2
54 10	18.143	36.29	54.43	72.57	90.72	108.86	127.00	145.15	163.29	1088.6	2177.2	3265.8	4354.4	5443.0
11	.136	.27	.41	.54	.68	.82	6.95	.09	.22	8.2	6.3	4.5	2.6	40.8
12	.129	.26	.39	.51	.65	.77	.90	5.03	.16	7.7	5.4	3.2	50.9	38.6
13	.121	.24	.36	.49	.61	.73	.85	4.97	.09	7.3	4.6	1.8	49.1	6.4
14	.114	.23	.34	.46	.57	.68	.80	.91	3.03	6.8	3.7	60.5	7.4	4.2
54 15	18.107	36.21	54.32	72.43	90.54	108.64	126.74	144.85	162.96	1086.4	2172.8	3259.2	4345.6	5432.0
16	.099	.20	.30	.40	.50	.60	.69	.80	.89	6.0	1.9	7.9	3.9	29.8
17	.092	.18	.28	.37	.46	.55	.64	.74	.83	5.5	1.0	6.6	2.1	7.7
18	.085	.17	.25	.34	.42	.51	.59	.68	.76	5.1	70.2	5.3	40.4	5.5
19	.078	.16	.23	.31	.39	.47	.54	.62	.70	4.7	69.3	4.0	38.6	3.3
54 20	18.070	36.14	54.21	72.28	90.35	108.42	126.49	144.56	162.63	1084.2	2168.4	3252.7	4336.9	5421.1
21	.063	.13	.19	.25	.31	.38	.44	.50	.56	3.8	7.5	1.3	5.1	18.9
22	.056	.11	.17	.22	.28	.33	.39	.45	.50	3.3	6.7	50.0	3.4	6.7
23	.048	.10	.14	.19	.24	.29	.34	.39	.43	2.9	5.8	48.7	31.6	4.5
24	.041	.08	.12	.16	.21	.25	.29	.33	.37	2.5	4.9	7.4	29.8	2.3
54 25	18.034	36.07	54.10	72.13	90.17	108.20	126.23	144.27	162.30	1082.0	2164.0	3246.1	4328.1	5410.1
26	.026	.05	.08	.10	.13	.16	.18	.21	.23	1.6	3.1	4.8	6.3	07.9
27	.019	.04	.06	.08	.10	.11	.13	.15	.17	1.1	2.3	3.4	4.6	5.7
28	.012	.02	.03	.05	.06	.07	.08	.09	.10	0.7	1.4	2.1	2.8	3.5
29	.004	6.01	4.01	2.02	90.03	8.03	6.03	4.04	2.04	80.3	60.6	40.8	21.1	401.3
54 30	17.997	35.99	53.99	71.99	89.99	107.98	125.98	143.98	161.97	1079.8	2159.7	3239.5	4319.3	5399.1
31	.990	.98	.97	.96	.95	.94	.93	.92	.91	9.4	8.8	8.2	7.6	6.9
32	.982	.96	.95	.93	.91	.89	.88	.86	.84	8.9	7.9	6.8	5.8	4.7
33	.975	.95	.92	.90	.88	.85	.83	.80	.78	8.5	7.0	5.5	4.0	2.5
34	.968	.94	.90	.87	.84	.81	.78	.74	.71	8.1	6.2	4.2	2.3	90.3
54 35	17.960	35.92	53.88	71.84	89.80	107.76	125.72	143.68	161.65	1077.6	2155.3	3232.9	4310.5	5388.1
36	.953	.91	.86	.81	.77	.72	.67	.63	.58	7.2	4.4	1.6	08.8	5.9
37	.946	.89	.84	.78	.73	.67	.62	.57	.51	6.7	3.5	30.2	7.0	3.7
38	.938	.88	.81	.75	.69	.63	.57	.51	.45	6.3	2.6	28.9	5.2	81.5
39	.931	.86	.79	.73	.66	.59	.52	.45	.38	5.9	1.8	7.6	3.5	79.4
54 40	17.924	35.85	53.77	71.70	89.62	107.54	125.47	143.39	161.32	1075.4	2150.9	3226.3	4301.7	5377.2
41	.916	.83	.75	.67	.58	.50	.42	.33	.25	5.0	50.0	5.0	300.0	4.9
42	.909	.82	.73	.64	.54	.45	.36	.27	.18	4.5	49.1	3.6	298.2	2.7
43	.902	.80	.70	.61	.51	.41	.31	.21	.12	4.1	8.2	2.3	6.4	70.5
44	.894	.79	.68	.58	.47	.37	.26	.16	1.05	3.7	7.4	21.0	4.7	68.3
54 45	17.887	35.77	53.66	71.55	89.43	107.32	125.21	143.10	160.99	1073.2	2146.5	3219.7	4292.9	5366.1
46	.880	.76	.64	.52	.40	.28	.16	3.04	.92	2.8	5.6	8.4	91.1	3.9
47	.872	.74	.62	.49	.36	.23	.11	2.98	.85	2.3	4.7	7.0	89.4	61.7
48	.865	.73	.59	.46	.32	.19	.05	.92	.78	1.9	3.8	5.7	7.6	59.5
49	.858	.72	.57	.43	.29	.15	5.00	.86	.72	1.5	2.9	4.4	5.9	7.3
54 50	17.850	35.70	53.55	71.40	89.25	107.10	124.95	142.80	160.65	1071.0	2142.0	3213.1	4284.1	5355.1
51	.843	.69	.53	.37	.21	.06	.90	.74	.58	0.6	1.1	1.7	2.3	2.9
52	.836	.67	.51	.34	.18	7.01	.85	.69	.52	70.1	40.3	10.4	80.6	50.7
53	.828	.66	.48	.31	.14	6.97	.80	.63	.45	69.7	39.4	09.1	78.8	48.5
54	.821	.64	.46	.28	.10	.93	.75	.57	.39	9.3	8.5	7.8	7.0	6.3
54 55	17.814	35.63	53.44	71.25	89.07	106.88	124.69	142.51	160.32	1068.8	2137.6	3206.4	4275.3	5344.1
56	.806	.61	.42	.22	9.03	.84	.64	.45	.25	8.4	6.7	5.1	3.5	41.9
57	.799	.60	.40	.19	8.99	.79	.59	.39	.19	7.9	5.8	3.8	1.7	39.7
58	.791	.58	.37	.17	.95	.75	.54	.33	.12	7.5	5.0	2.5	70.0	7.4
59	.784	.57	.35	.14	.92	.70	.49	.27	60.06	7.0	4.1	201.1	68.2	5.2
54 60	17.777	35.55	53.33	71.11	88.88	106.66	124.44	142.21	159.99	1066.6	2133.2	3199.8	4266.4	5333.0

Lat.	Latitude 54° to 55°—Meridional arcs					Latitude 54°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 54°30'		Value of 1'	Continuous sums of minutes from latitude 54°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
54 00	30.918			1855.10					
1	8	1	30.92	.11	1	1 855.1	0 1	1 093.0	0.1
2	9	2	61.84	.11	2	3 710.2	2	2 185.9	0.5
3	9	3	92.76	.12	3	5 565.3	3	3 278.9	1.2
4	9	4	123.68	.13	4	7 420.4	4	4 371.9	2.1
54 05	30.919			1855.13					
5		5	154.60	.13	5	9 275.6	0 5	5 464.8	3.2
6	9	6	185.53	.13	6	11 130.7	6	6 557.8	4.6
7	9	7	216.45	.14	7	12 985.8	7	7 650.8	6.3
8	9	8	247.37	.14	8	14 841.0	8	8 743.7	8.2
9	9	9	278.29	.15	9	16 696.1	9	9 836.7	10.4
54 10	30.919			1855.15					
10		10	309.21	.16	10	18 551.2	0 10	10 929.7	12.9
11	9	1	340.13	.16	1	20 406.4	15	16 394.5	28.9
12	9	2	371.05	.16	2	22 261.6	20	21 859.3	51.4
13	19	3	401.97	.17	3	24 116.7	25	27 324.0	80.4
14	20	4	432.89	.17	4	25 971.9	30	32 788.8	115.7
54 15	30.920			1855.18					
15		15	463.81	.18	15	27 827.1	0 35	38 253.4	157.5
16	0	6	494.74	.18	6	29 682.3	40	43 718.0	205.8
17	0	7	525.66	.19	7	31 537.4	45	49 182.6	260.4
18	0	8	556.58	.19	8	33 392.6	50	54 647.1	321.5
19	0	9	587.50	.20	9	35 247.8	55	60 111.5	389.0
54 20	30.920			1855.21					
20		20	618.42	.21	20	37 103.0	1 00	65 575.9	463.0
21	0	1	649.34	.21	1	38 958.2	05	71 040.1	543.4
22	0	2	680.26	.22	2	40 813.5	10	76 504.3	630.2
23	0	3	711.18	.22	3	42 668.7	15	81 968.3	723.4
24	0	4	742.10	.23	4	44 523.9	20	87 432.3	823.1
54 25	30.921			1855.23					
25		25	773.02	.24	25	46 379.1	1 25	92 896.1	929.1
26	1	6	803.94	.24	6	48 234.4	30	98 359.8	1 041.7
27	1	7	834.87	.24	7	50 089.6	35	103 823.3	1 160.6
28	1	8	865.79	.25	8	51 944.8	40	109 286.7	1 286.0
29	1	9	896.71	.25	9	53 800.1	45	114 750.0	1 417.8
54 30	30.921			1855.26					
30		30	927.63	.26	30	55 655.3	1 50	120 213.1	1 556.0
31	1	1	958.55	.26	1	57 510.6	55	125 676.0	1 700.7
32	1	2	989.47	.27	2	59 365.9	2 00	131 139	1 852
33	1	3	1 020.39	.27	3	61 221.2	3 00	196 675	4 166
34	1	4	1 051.31	.28	4	63 076.4	4 00	262 173	7 406
54 35	30.921			1855.28					
35		35	1 082.23	.29	35	64 931.7	5 00	327 618	11 570
36	1	6	1 113.15	.29	6	66 787.0	6 00	392 998	16 657
37	2	7	1 144.08	.29	7	68 642.3	7 00	458 300	22 668
38	2	8	1 175.00	.30	8	70 497.6	8 00	523 510	29 599
39	2	9	1 205.92	.30	9	72 352.9	9 00	588 616	37 451
54 40	30.922			1855.31					
40		40	1 236.84	.31	40	74 208.2	10 00	653 604	46 221
41	2	1	1 267.76	.31	1	76 063.5	11 00	718 462	55 908
42	2	2	1 298.68	.32	2	77 918.8	12 00	783 177	66 510
43	2	3	1 329.60	.32	3	79 774.1	13 00	847 736	78 024
44	2	4	1 360.52	.33	4	81 629.5	14 00	912 125	90 449
54 45	30.922			1855.34					
45		45	1 391.44	.34	45	83 484.8	15 00	976 333	103 782
46	2	6	1 422.36	.34	6	85 340.1	16 00	1 040 347	118 020
47	2	7	1 453.28	.35	7	87 195.5	17 00	1 104 152	133 161
48	3	8	1 484.21	.35	8	89 050.8	18 00	1 167 738	149 200
49	3	9	1 515.13	.36	9	90 906.2	19 00	1 231 091	166 136
54 50	30.923			1855.36					
50		50	1 546.05	.37	50	92 761.5	20 00	1 294 198	183 965
51	3	1	1 576.97	.37	1	94 616.9	21 00	1 357 048	202 683
52	3	2	1 607.89	.37	2	96 472.3	22 00	1 419 627	222 287
53	3	3	1 638.81	.38	3	98 327.6	23 00	1 481 922	242 772
54	3	4	1 669.73	.38	4	100 183.0	24 00	1 543 923	264 135
54 55	30.923			1855.39					
55		55	1 700.65	.39	55	102 038.4	25 00	1 605 615	286 371
56	3	6	1 731.57	.39	6	103 893.8	26 00	1 666 988	309 476
57	3	7	1 762.49	.40	7	105 749.2	27 00	1 728 028	333 445
58	3	8	1 793.42	.40	8	107 604.6	28 00	1 788 723	358 274
59	3	9	1 824.34	.41	9	109 460.0	29 00	1 849 062	383 957
54 60	30.924			1855.41					
60		60	1 855.26	.41	60	111 315.4	30 00	1 909 033	410 490

Latitude 55° to 56°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
55 00	17.777	35.55	53.33	71.11	88.88	106.66	124.44	142.21	159.99	1066.6	2133.2	3199.8	4266.4	5333.0
1	.769	.54	.31	.08	.84	.62	.39	.16	.92	6.2	2.3	8.5	4.7	30.8
2	.762	.52	.29	.05	.81	.57	.34	.10	.86	5.7	1.4	7.2	2.9	28.6
3	.755	.51	.26	1.02	.77	.53	.28	2.04	.79	5.3	30.6	5.8	61.1	6.4
4	.747	.49	.24	0.99	.74	.48	.23	1.98	.73	4.8	29.7	4.5	59.3	4.2
55 05	17.740	35.48	53.22	70.96	88.70	106.44	124.18	141.92	159.66	1064.4	2128.8	3193.2	4257.6	5322.0
6	.733	.47	.20	.93	.66	.40	.13	.86	.59	4.0	7.9	1.9	5.8	19.8
7	.725	.45	.18	.90	.63	.35	.08	.80	.53	3.5	7.0	90.5	4.0	7.5
8	.718	.44	.15	.87	.59	.31	4.02	.74	.46	3.1	6.2	89.2	2.3	5.3
9	.710	.42	.13	.84	.56	.26	3.97	.68	.40	2.6	5.3	7.9	50.5	3.1
55 10	17.703	35.41	53.11	70.81	88.52	106.22	123.92	141.62	159.33	1062.2	2124.4	3186.5	4248.7	5310.9
11	.696	.39	.09	.78	.48	.17	.87	.56	.26	1.7	3.5	5.2	6.9	08.7
12	.688	.38	.07	.75	.45	.13	.82	.51	.20	1.3	2.6	3.9	5.2	6.5
13	.681	.36	.04	.72	.41	.08	.76	.45	.13	0.8	1.7	2.5	3.4	4.2
14	.673	.35	.02	.69	.37	.04	.71	.39	.06	0.4	20.8	81.2	1.6	302.0
55 15	17.666	35.33	53.00	70.66	88.33	106.00	123.66	141.33	159.00	1060.0	2119.9	3179.9	4239.8	5299.8
16	.659	.32	2.98	.63	.30	5.95	.61	.27	8.93	59.5	9.0	8.6	8.1	7.6
17	.651	.30	.95	.60	.26	.91	.56	.21	.86	9.1	8.1	7.2	6.3	5.4
18	.644	.29	.93	.58	.22	.86	.50	.15	.79	8.6	7.3	5.9	4.5	3.2
19	.636	.27	.91	.55	.19	.82	.45	.09	.73	8.2	6.4	4.6	2.8	90.9
55 20	17.629	35.26	52.89	70.52	88.15	105.77	123.40	141.03	158.66	1057.7	2115.5	3173.2	4231.0	5288.7
21	.622	.24	.87	.49	.11	.73	.35	0.97	.59	7.3	4.6	1.9	29.2	6.5
22	.614	.23	.84	.46	.08	.69	.30	.91	.53	6.9	3.7	70.6	7.4	4.3
23	.607	.21	.82	.43	.04	.64	.25	.85	.46	6.4	2.8	69.2	5.6	82.1
24	.599	.20	.80	.40	8.00	.60	.20	.80	.40	6.0	1.9	7.9	3.9	79.8
55 25	17.592	35.18	52.78	70.37	87.97	105.55	123.14	140.74	158.33	1055.5	2111.0	3166.6	4222.1	5277.6
26	.585	.17	.75	.34	.93	.51	.09	.68	.26	5.1	10.1	5.2	20.3	5.4
27	.577	.15	.73	.31	.89	.46	3.04	.62	.20	4.6	09.2	3.9	18.5	3.2
28	.570	.14	.71	.28	.85	.42	2.99	.56	.13	4.2	8.4	2.6	6.8	70.9
29	.562	.12	.69	.25	.82	.37	.94	.50	.06	3.7	7.5	61.2	5.0	68.7
55 30	17.555	35.11	52.67	70.22	87.78	105.33	122.89	140.44	158.00	1053.3	2106.6	3159.9	4213.2	5266.5
31	.548	.10	.64	.19	.74	.29	.84	.38	7.93	2.9	5.7	8.6	11.4	4.3
32	.540	.08	.62	.16	.70	.24	.79	.32	.86	2.4	4.8	7.2	09.6	62.1
33	.533	.07	.60	.13	.67	.20	.73	.26	.80	2.0	3.9	5.9	7.9	59.8
34	.525	.05	.58	.10	.63	.15	.68	.20	.73	1.5	3.0	4.6	6.1	7.6
55 35	17.518	35.04	52.55	70.07	87.59	105.11	122.63	140.14	157.66	1051.1	2102.1	3153.2	4204.3	5255.4
36	.510	.02	.53	.04	.55	.06	.58	.08	.60	0.6	1.2	1.9	2.5	3.1
37	.503	5.01	.51	70.01	.51	5.02	.53	40.02	.53	50.2	100.3	50.6	200.7	50.9
38	.496	4.99	.49	69.98	.48	4.97	.47	39.97	.46	49.7	099.5	49.2	199.0	48.7
39	.488	.98	.46	.95	.44	.93	.42	.91	.40	9.3	8.6	7.9	7.2	6.5
55 40	17.481	34.96	52.44	69.92	87.40	104.89	122.37	139.85	157.33	1048.9	2097.7	3146.6	4195.4	5244.3
41	.473	.95	.42	.89	.36	.84	.32	.79	.26	8.4	6.8	5.2	3.6	42.0
42	.466	.93	.40	.86	.33	.80	.27	.73	.20	8.0	5.9	3.9	1.8	39.8
43	.459	.92	.38	.83	.29	.75	.21	.67	.13	7.5	5.0	2.5	90.0	7.6
44	.451	.90	.35	.80	.25	.71	.16	.61	.06	7.1	4.1	41.2	88.3	5.3
55 45	17.444	34.89	52.33	69.77	87.21	104.66	122.11	139.55	157.00	1046.6	2093.2	3139.9	4186.5	5233.1
46	.436	.87	.31	.74	.18	.62	.06	.49	6.93	6.2	2.3	8.5	4.7	30.9
47	.429	.86	.29	.71	.14	.57	2.01	.43	.86	5.7	1.4	7.2	2.9	28.6
48	.421	.84	.26	.69	.10	.53	1.95	.37	.79	5.3	90.6	5.8	81.1	6.4
49	.414	.83	.24	.66	.07	.48	.90	.31	.73	4.8	89.7	4.5	79.3	4.2
55 50	17.406	34.81	52.22	69.63	87.03	104.44	121.85	139.25	156.66	1044.4	2088.8	3133.2	4177.6	5221.9
51	.399	.80	.20	.60	6.99	.39	.80	.19	.59	3.9	7.9	1.8	5.8	19.7
52	.392	.78	.18	.57	.96	.35	.74	.13	.53	3.5	7.0	30.5	4.0	7.5
53	.384	.77	.15	.54	.92	.30	.69	.07	.46	3.0	6.1	29.1	2.2	5.2
54	.377	.75	.13	.51	.88	.26	.64	9.01	.39	2.6	5.2	7.8	70.4	3.0
55 55	17.369	34.74	52.11	69.48	86.85	104.22	121.58	138.95	156.33	1042.2	2084.3	3126.5	4168.6	5210.8
56	.362	.72	.09	.45	.81	.17	.53	.89	.26	1.7	3.4	5.1	6.8	08.5
57	.354	.71	.06	.42	.77	.13	.48	.83	.19	1.3	2.5	3.8	5.0	6.3
58	.347	.69	.04	.39	.73	.08	.43	.77	.12	0.8	1.6	2.4	3.2	4.1
59	.339	.68	.02	.36	.70	4.04	.37	.72	6.06	40.4	80.7	21.1	61.5	201.8
55 60	17.332	34.66	52.00	69.33	86.66	103.99	121.32	138.66	155.99	1039.9	2079.8	3119.8	4159.7	5199.6

Lat.	Latitude 55° to 56°—Meridional arcs						Latitude 55°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 55°30'		Value of 1'		Continuous sums of minutes from latitude 55°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	°	'	Meters	Meters	
55 00	30.924			1855.41			0	0			
1	4	1	30.93	.42	1	1 855.4	0	1	1 066.6	0.1	
2	4	2	61.85	.42	2	3 710.8		2	2 133.2	0.5	
3	4	3	92.78	.43	3	5 566.3		3	3 199.8	1.1	
4	4	4	123.70	.43	4	7 421.7		4	4 266.4	2.0	
55 05	30.924	5	154.63	1855.44	5	9 277.1	0	5	5 333.0	3.2	
6	4	6	185.56	.44	6	11 132.6		6	6 399.6	4.6	
7	4	7	216.48	.45	7	12 988.0		7	7 466.2	6.2	
8	4	8	247.41	.45	8	14 843.5		8	8 532.8	8.1	
9	4	9	278.34	.46	9	16 698.9		9	9 599.4	10.3	
55 10	30.924	10	309.26	1855.46	10	18 554.4	0	10	10 666.1	12.7	
11	4	1	340.19	.47	1	20 409.9		15	15 999.1	28.6	
12	5	2	371.11	.47	2	22 265.3		20	21 332.1	50.8	
13	5	3	402.04	.48	3	24 120.8		25	26 665.0	79.4	
14	5	4	432.97	.49	4	25 976.3		30	31 997.9	114.4	
55 15	30.925	15	463.89	1855.49	15	27 831.8	0	35	37 330.8	155.7	
16	5	6	494.82	.50	6	29 687.3		40	42 663.6	203.3	
17	5	7	525.74	.50	7	31 542.8		45	47 996.4	257.3	
18	5	8	556.67	.51	8	33 398.3		50	53 329.1	317.7	
19	5	9	587.60	.51	9	35 253.8		55	58 661.7	384.4	
55 20	30.925	20	618.52	1855.52	20	37 109.3	1	00	63 994.2	457.5	
21	5	1	649.45	.52	1	38 964.8		05	69 326.7	536.9	
22	5	2	680.37	.53	2	40 820.4		10	74 659.0	622.7	
23	6	3	711.30	.53	3	42 675.9		15	79 991.3	714.8	
24	6	4	742.23	.54	4	44 531.4		20	85 323.4	813.3	
55 25	30.926	25	773.15	1855.54	25	46 387.0	1	25	90 655.4	918.1	
26	6	6	804.08	.55	6	48 242.5		30	95 987.3	1 029.3	
27	6	7	835.01	.55	7	50 098.1		35	101 319.0	1 146.8	
28	6	8	865.93	.56	8	51 953.6		40	106 650.6	1 270.7	
29	6	9	896.86	.56	9	53 809.2		45	111 982.1	1 400.9	
55 30	30.926	30	927.78	1855.57	30	55 664.7	1	50	117 313.3	1 537.5	
31	6	1	958.71	.57	1	57 520.3		55	122 644.5	1 680.5	
32	6	2	989.64	.58	2	59 375.9		2 00	127 975	1 830	
33	6	3	1 020.56	.58	3	61 231.4		3 00	191 930	4 117	
34	6	4	1 051.49	.59	4	63 087.0		4 00	255 846	7 318	
55 35	30.927	35	1 082.41	1855.59	35	64 942.6	5	00	319 710	11 432	
36	7	6	1 113.34	.60	6	66 798.2		6 00	383 508	16 459	
37	7	7	1 144.27	.60	7	68 653.8		7 00	447 228	22 398	
38	7	8	1 175.19	.61	8	70 509.4		8 00	510 856	29 246	
39	7	9	1 206.12	.61	9	72 365.0		9 00	574 380	37 004	
55 40	30.927	40	1 237.04	1855.62	40	74 220.7	10	00	637 786	45 670	
41	7	1	1 267.97	.62	1	76 076.3		11 00	701 062	55 240	
42	7	2	1 298.90	.63	2	77 931.9		12 00	764 195	65 715	
43	7	3	1 329.82	.63	3	79 787.6		13 00	827 172	77 091	
44	7	4	1 360.75	.64	4	81 643.2		14 00	889 980	89 366	
55 45	30.927	45	1 391.68	1855.64	45	83 498.8	15	00	952.605	102 538	
46	7	6	1 422.60	.65	6	85 354.5		16 00	1 015 036	116 604	
47	8	7	1 453.53	.65	7	87 210.1		17 00	1 077 260	131 561	
48	8	8	1 484.45	.66	8	89 065.8		18 00	1 139 263	147 406	
49	8	9	1 515.38	.66	9	90 921.5		19 00	1 201 033	164 135	
55 50	30.928	50	1 546.31	1855.67	50	92 777.1	20	00	1 262 558	181 747	
51	8	1	1 577.23	.68	1	94 632.8		21 00	1 323 825	200 236	
52	8	2	1 608.16	.68	2	96 488.4		22 00	1 384 821	219 599	
53	8	3	1 639.08	.69	3	98 344.1		23 00	1 445 535	239 832	
54	8	4	1 670.01	.69	4	100 199.8		24 00	1 505 952	260 931	
55 55	30.928	55	1 700.94	1855.70	55	102 055.5	25	00	1 566 063	282 891	
56	8	6	1 731.86	.70	6	103 911.2		26 00	1 625 853	305 709	
57	8	7	1 762.79	.71	7	105 766.9		27 00	1 685 310	329 379	
58	9	8	1 793.72	.71	8	107 622.6		28 00	1 744 423	353 896	
59	9	9	1 824.64	.72	9	109 478.3		29 00	1 803 179	379 257	
55 60	30.929	60	1 855.57	1855.72	60	111 334.0	30	00	1 861 567	405 454	

Latitude 56° to 57°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
56 00	17.332	34.66	52.00	69.33	86.66	103.99	121.32	138.66	155.99	1039.9	2079.8	3119.8	4159.7	5199.6
1	.324	.65	1.97	.30	.62	.95	.27	.60	.92	9.5	8.9	8.4	7.9	7.3
2	.317	.63	.95	.27	.59	.90	.22	.54	.86	9.0	8.0	7.1	6.1	5.1
3	.310	.62	.93	.24	.55	.86	.16	.48	.79	8.6	7.2	5.7	4.3	2.9
4	.302	.60	.91	.21	.51	.81	.11	.42	.72	8.1	6.3	4.4	2.5	90.6
56 05	17.295	34.59	51.88	69.18	86.48	103.77	121.06	138.36	155.65	1037.7	2075.4	3113.0	4150.7	5188.4
6	.287	.57	.86	.15	.44	.72	1.01	.30	.59	7.2	4.5	1.7	48.9	6.1
7	.280	.56	.84	.12	.40	.68	0.96	.24	.52	6.8	3.6	10.3	7.1	3.9
8	.272	.54	.82	.09	.36	.63	.90	.18	.45	6.3	2.7	09.0	5.3	81.7
9	.265	.53	.79	.06	.33	.59	.85	.12	.38	5.9	1.8	7.7	3.5	79.4
56 10	17.257	34.51	51.77	69.03	86.29	103.54	120.80	138.06	155.32	1035.4	2070.9	3106.3	4141.7	5177.2
11	.250	.50	.75	9.00	.25	.50	.75	8.00	.25	5.0	70.0	5.0	40.0	4.9
12	.242	.48	.73	8.97	.21	.45	.70	7.94	.18	4.5	69.1	3.6	38.2	2.7
13	.235	.47	.70	.94	.18	.41	.64	.88	.11	4.1	8.2	2.3	6.4	70.4
14	.227	.45	.68	.91	.14	.36	.59	.82	5.05	3.6	7.3	100.9	4.6	68.2
56 15	17.220	34.44	51.66	68.88	86.10	103.32	120.54	137.76	154.98	1033.2	2066.4	3099.6	4132.8	5166.0
16	.212	.43	.64	.85	.06	.27	.49	.70	.91	2.7	5.5	8.2	31.0	3.7
17	.205	.41	.62	.82	6.02	.23	.44	.64	.84	2.3	4.6	6.9	29.2	61.5
18	.197	.40	.59	.79	5.99	.18	.38	.58	.78	1.8	3.7	5.5	7.4	59.2
19	.190	.38	.57	.76	.95	.14	.33	.52	.71	1.4	2.8	4.2	5.6	7.0
56 20	17.182	34.37	51.55	68.73	85.91	103.09	120.28	137.46	154.64	1030.9	2061.9	3092.8	4123.8	5154.7
21	.175	.35	.53	.70	.87	.05	.23	.40	.57	0.5	1.0	1.5	2.0	2.5
22	.167	.34	.50	.67	.84	3.00	.17	.34	.51	30.0	60.1	90.1	20.2	50.2
23	.160	.32	.48	.64	.80	2.96	.12	.28	.44	29.6	59.2	88.8	18.4	48.0
24	.152	.31	.46	.61	.76	.91	.07	.22	.37	9.1	8.3	7.4	6.6	5.7
56 25	17.145	34.29	51.43	68.58	85.73	102.87	120.01	137.16	154.31	1028.7	2057.4	3086.1	4114.8	5143.5
26	.137	.28	.41	.55	.69	.82	19.96	.10	.24	8.2	6.5	4.7	3.0	41.2
27	.130	.26	.39	.52	.65	.78	.91	7.04	.17	7.8	5.6	3.4	11.2	39.0
28	.123	.25	.37	.49	.61	.74	.86	6.98	.10	7.4	4.7	2.1	09.4	6.8
29	.115	.23	.34	.46	.58	.69	.80	.92	4.04	6.9	3.8	80.7	7.6	4.5
56 30	17.108	34.22	51.32	68.43	85.54	102.65	119.75	136.86	153.97	1026.5	2052.9	3079.4	4105.8	5132.3
31	.100	.20	.30	.40	.50	.60	.70	.80	.90	6.0	2.0	8.0	4.0	30.0
32	.092	.19	.28	.37	.46	.55	.65	.74	.83	5.5	1.1	6.6	2.2	27.7
33	.085	.17	.25	.34	.43	.51	.59	.68	.77	5.1	50.2	5.3	100.4	5.5
34	.077	.16	.23	.31	.39	.46	.54	.62	.70	4.6	49.3	3.9	098.6	3.2
56 35	17.070	34.14	51.21	68.28	85.35	102.42	119.49	136.56	153.63	1024.2	2048.4	3072.6	4096.8	5121.0
36	.062	.12	.19	.25	.31	.37	.44	.50	.56	3.7	7.5	71.2	5.0	18.7
37	.055	.11	.17	.22	.27	.33	.39	.44	.49	3.3	6.6	69.9	3.2	6.5
38	.047	.09	.14	.19	.24	.28	.33	.38	.43	2.8	5.7	8.5	91.4	4.2
39	.040	.08	.12	.16	.20	.24	.28	.32	.36	2.4	4.8	7.2	89.6	12.0
56 40	17.032	34.06	51.10	68.13	85.16	102.19	119.23	136.26	153.29	1021.9	2043.9	3065.8	4087.8	5109.7
41	.025	.05	.08	.10	.12	.15	.18	.20	.22	1.5	3.0	4.5	6.0	7.5
42	.017	.03	.05	.07	.09	.10	.12	.14	.15	1.0	2.1	3.1	4.2	5.2
43	.010	.02	.03	.04	.05	.06	.07	.08	.09	0.6	1.2	1.8	2.4	2.9
44	.002	4.00	1.01	8.01	5.01	2.01	9.02	6.02	3.02	20.1	40.3	60.4	80.6	100.7
56 45	16.995	33.99	50.98	67.98	84.98	101.97	118.96	135.96	152.95	1019.7	2039.4	3059.1	4078.7	5098.4
46	.987	.97	.96	.95	.94	.92	.91	.90	.88	9.2	8.5	7.7	6.9	6.2
47	.980	.96	.94	.92	.90	.88	.86	.84	.82	8.8	7.6	6.4	5.1	3.9
48	.972	.94	.92	.89	.86	.83	.81	.78	.75	8.3	6.7	5.0	3.3	91.7
49	.965	.93	.89	.86	.83	.79	.75	.72	.68	7.9	5.8	3.6	71.5	89.4
56 50	16.957	33.91	50.87	67.83	84.79	101.74	118.70	135.66	152.61	1017.4	2034.9	3052.3	4069.7	5087.2
51	.950	.90	.85	.80	.75	.70	.65	.60	.54	7.0	4.0	50.9	7.9	4.9
52	.942	.88	.83	.77	.71	.65	.59	.54	.48	6.5	3.1	49.6	6.1	2.6
53	.935	.87	.80	.74	.68	.61	.54	.48	.41	6.1	2.1	8.2	4.3	80.4
54	.927	.85	.78	.71	.64	.56	.49	.42	.34	5.6	1.2	6.9	2.5	78.1
56 55	16.919	33.84	50.76	67.68	84.60	101.52	118.43	135.36	152.27	1015.2	2030.3	3045.5	4060.7	5075.8
56	.912	.82	.74	.65	.56	.47	.38	.30	.21	4.7	29.4	4.1	58.9	3.6
57	.904	.81	.71	.62	.52	.43	.33	.24	.14	4.3	8.5	2.8	7.1	71.3
58	.897	.79	.69	.59	.49	.38	.28	.17	.07	3.8	7.6	1.4	5.2	69.1
59	.889	.78	.67	.56	.45	.34	.22	.11	2.01	3.4	6.7	40.1	3.4	6.8
56 60	16.882	33.76	50.65	67.53	84.41	101.29	118.17	135.05	151.94	1012.9	2025.8	3038.7	4051.6	5064.5

Lat.	Latitude 56° to 57°—Meridional arcs						Latitude 56°—Coordinates of curvature for the polyconic projection		
	Value of 1'	Sums of seconds for middle latitude 56°30'		Value of 1'	Continuous sums of minutes from latitude 56°00'		Longitude	X	Y
		Meters	"		Meters	'			
56 00	30.929			1855.72					
1	9	1	30.93	.73	1	1 855.7	0 1	1 039.9	0.1
2	9	2	61.86	.73	2	3 711.5	2	2 079.8	0.5
3	9	3	92.79	.74	3	5 567.2	3	3 119.8	1.1
4	9	4	123.72	.74	4	7 422.9	4	4 159.7	2.0
56 05	30.929	5	154.66	1855.75	5	9 278.7	0 5	5 199.6	3.1
6	9	6	185.59	.75	6	11 134.4	6	6 239.5	4.5
7	9	7	216.52	.76	7	12 990.2	7	7 279.4	6.1
8	9	8	247.45	.76	8	14 845.9	8	8 319.3	8.0
9	29	9	278.38	.77	9	16 701.7	9	9 359.2	10.2
56 10	30.930	10	309.31	1855.77	10	18 557.5	0 10	10 399.2	12.5
11	0	1	340.24	.78	1	20 413.2	15	15 598.7	28.2
12	0	2	371.17	.78	2	22 269.0	20	20 798.3	50.2
13	0	3	402.11	.79	3	24 124.8	25	25 997.8	78.4
14	0	4	433.04	.79	4	25 980.6	30	31 197.3	112.9
56 15	30.930	15	463.97	1855.80	15	27 836.4	0 35	36 396.7	153.6
16	0	6	494.90	.80	6	29 692.2	40	41 596.0	200.6
17	0	7	525.83	.81	7	31 548.0	45	46 795.4	253.9
18	0	8	556.76	.81	8	33 403.8	50	51 994.6	313.5
19	0	9	587.69	.82	9	35 259.6	55	57 193.8	379.3
56 20	30.930	20	618.62	1855.82	20	37 115.4	1 00	62 392.9	451.4
21	0	1	649.56	.83	1	38 971.3	05	67 591.9	529.8
22	1	2	680.49	.83	2	40 827.1	10	72 790.8	614.4
23	1	3	711.42	.84	3	42 682.9	15	77 989.6	705.3
24	1	4	742.35	.84	4	44 538.8	20	83 188.2	802.5
56 25	30.931	25	773.28	1855.85	25	46 394.6	1 25	88 386.8	905.9
26	1	6	804.21	.85	6	48 250.5	30	93 585.2	1 015.6
27	1	7	835.14	.86	7	50 106.3	35	98 783.5	1 131.6
28	1	8	866.07	.86	8	51 962.2	40	103 981.7	1 253.8
29	1	9	897.01	.87	9	53 818.0	45	109 179.7	1 382.4
56 30	30.931	30	927.94	1855.87	30	55 673.9	1 50	114 377.5	1 517.1
31	1	1	958.87	.88	1	57 529.8	55	119 575.2	1 658.2
32	1	2	989.80	.88	2	59 385.7	2 00	124 773	1 806
33	1	3	1 020.73	.89	3	61 241.6	3 00	187 126	4 062
34	2	4	1 051.66	.89	4	63 097.5	4 00	249 441	7 221
56 35	30.932	35	1 082.59	1855.90	35	64 953.4	5 00	311 703	11 280
36	2	6	1 113.52	.90	6	66 809.3	6 00	373 900	16 241
37	2	7	1 144.46	.91	7	68 665.2	7 00	436 019	22 100
38	2	8	1 175.39	.91	8	70 521.1	8 00	498 047	28 858
39	2	9	1 206.32	.92	9	72 377.0	9 00	559 970	36 512
56 40	30.932	40	1 237.25	1855.92	40	74 232.9	10 00	621 776	45 062
41	2	1	1 268.18	.93	1	76 088.8	11 00	683 451	54 506
42	2	2	1 299.11	.93	2	77 944.8	12 00	744 984	64 840
43	2	3	1 330.04	.94	3	79 800.7	13 00	806 361	76 064
44	2	4	1 360.97	.94	4	81 656.7	14 00	867 569	88 174
56 45	30.932	45	1 391.91	1855.95	45	83 512.6	15 00	928 595	101 169
46	3	6	1 422.84	.95	6	85 368.6	16 00	989 427	115 046
47	3	7	1 453.77	.96	7	87 224.5	17 00	1 050 051	129 801
48	3	8	1 484.70	.96	8	89 080.5	18 00	1 110 456	145 432
49	3	9	1 515.63	.97	9	90 936.4	19 00	1 170 629	161 935
56 50	30.933	50	1 546.56	1855.97	50	92 792.4	20 00	1 230 556	179 308
51	3	1	1 577.49	.98	1	94 648.4	21 00	1 290 226	197 545
52	3	2	1 608.42	.98	2	96 504.4	22 00	1 349 625	216 644
53	3	3	1 639.36	5.99	3	98 360.4	23 00	1 408 742	236 600
54	3	4	1 670.29	6.00	4	100 216.3	24 00	1 467 564	257 410
56 55	30.933	55	1 701.22	1856.00	55	102 072.3	25 00	1 526 079	279 069
56	3	6	1 732.15	.01	6	103 928.3	26 00	1 584 275	301 572
57	4	7	1 763.08	.01	7	105 784.4	27 00	1 642 138	324 914
58	4	8	1 794.01	.02	8	107 640.4	28 00	1 699 658	349 092
59	4	9	1 824.94	.02	9	109 496.4	29 00	1 756 822	374 099
56 60	30.934	60	1 855.87	1856.03	60	111 352.4	30 00	1 813 618	399 930

Latitude 57° to 58°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
57 00	16.882	33.76	50.65	67.53	84.41	101.29	118.17	135.05	151.94	1012.9	2025.8	3038.7	4051.6	5064.5
1	.874	.75	.62	.50	.37	.25	.12	4.99	.87	2.5	4.9	7.4	49.8	2.3
2	.867	.73	.60	.47	.33	.20	.06	.93	.80	2.0	4.0	6.0	8.0	60.0
3	.859	.72	.58	.44	.30	.15	8.01	.87	.73	1.5	3.1	4.6	6.2	57.7
4	.852	.70	.56	.41	.26	.11	7.96	.81	.67	1.1	2.2	3.3	4.4	5.5
57 05	16.844	33.69	50.53	67.38	84.22	101.06	117.90	134.75	151.60	1010.6	2021.3	3031.9	4042.6	5053.2
6	.836	.67	.51	.35	.18	1.02	.85	.69	.53	10.2	20.4	30.6	40.7	50.9
7	.829	.66	.49	.32	.14	0.97	.80	.63	.46	09.7	19.5	29.2	38.9	48.7
8	.821	.64	.46	.29	.11	.93	.75	.57	.39	9.3	8.6	7.8	7.1	6.4
9	.814	.63	.44	.26	.07	.88	.69	.51	.32	8.8	7.7	6.5	5.3	4.1
57 10	16.806	33.61	50.42	67.23	84.03	100.84	117.64	134.45	151.26	1008.4	2016.8	3025.1	4033.5	5041.9
11	.799	.60	.40	.20	3.99	.79	.59	.39	.19	7.9	5.9	3.8	31.7	39.6
12	.791	.58	.37	.17	.95	.75	.53	.33	.12	7.5	5.0	2.4	29.9	7.3
13	.784	.57	.35	.13	.92	.70	.48	.27	1.05	7.0	4.0	21.0	8.0	5.1
14	.776	.55	.33	.10	.88	.66	.43	.21	0.99	6.6	3.1	19.7	6.2	2.8
57 15	16.768	33.54	50.30	67.07	83.84	100.61	117.37	134.15	150.92	1006.1	2012.2	3018.3	4024.4	5030.5
16	.761	.52	.28	.04	.80	.56	.32	.09	.85	5.6	1.3	6.9	2.6	28.2
17	.753	.51	.26	7.01	.76	.52	.27	4.03	.78	5.2	10.4	5.6	20.8	6.0
18	.746	.49	.24	6.98	.73	.47	.22	3.97	.71	4.7	09.5	4.2	19.0	3.7
19	.738	.48	.21	.95	.69	.43	.16	.90	.65	4.3	8.6	2.9	7.1	21.4
57 20	16.731	33.46	50.19	66.92	83.65	100.38	117.11	133.84	150.58	1003.8	2007.7	3011.5	4015.3	5019.2
21	.723	.45	.17	.89	.61	.34	.06	.78	.51	3.4	6.8	10.1	3.5	6.9
22	.715	.43	.15	.86	.57	.29	7.00	.72	.44	2.9	5.9	08.8	11.7	4.6
23	.708	.42	.12	.83	.54	.25	6.95	.66	.37	2.5	4.9	7.4	09.9	2.3
24	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.0	6.0	8.1	10.1
57 25	16.693	33.39	50.08	66.77	83.46	100.16	116.84	133.54	150.24	1001.6	2003.1	3004.7	4006.2	5007.8
26	.685	.37	.05	.74	.42	.11	.79	.48	.17	1.1	2.2	3.3	4.4	5.5
27	.677	.35	.03	.71	.38	.06	.74	.42	.10	0.6	1.3	1.9	2.6	3.2
28	.670	.34	50.01	.68	.35	100.02	.69	.36	50.03	1000.2	2000.4	3000.6	4000.8	5001.0
29	.662	.32	49.99	.65	.31	99.97	.63	.30	49.96	999.7	1999.5	2999.2	3999.0	4998.7
57 30	16.655	33.31	49.96	66.62	83.27	99.93	116.58	133.24	149.89	999.3	1998.6	2997.9	3997.1	4996.4
31	.647	.29	.94	.59	.23	.88	.53	.18	.82	8.8	7.7	6.5	5.3	4.1
32	.640	.28	.92	.56	.19	.84	.47	.12	.75	8.4	6.8	5.1	3.5	91.9
33	.632	.26	.90	.53	.16	.79	.42	.06	.69	7.9	5.8	3.7	91.7	89.6
34	.624	.25	.87	.50	.12	.75	.37	3.00	.62	7.5	4.9	2.4	89.8	7.3
57 35	16.617	33.23	49.85	66.47	83.08	99.70	116.31	132.93	149.55	997.0	1994.0	2991.0	3988.0	4985.0
36	.609	.22	.83	.44	.04	.65	.26	.87	.48	6.5	3.1	89.6	6.2	2.7
37	.602	.20	.81	.41	3.00	.61	.21	.81	.41	6.1	2.2	8.3	4.4	80.5
38	.594	.19	.78	.38	2.97	.56	.16	.75	.35	5.6	1.3	6.9	2.5	78.2
39	.586	.17	.76	.35	.93	.52	.10	.69	.28	5.2	90.4	5.5	80.7	5.9
57 40	16.579	33.16	49.74	66.32	82.89	99.47	116.05	132.63	149.21	994.7	1989.5	2984.2	3978.9	4973.6
41	.571	.14	.71	.29	.85	.43	6.00	.57	.14	4.3	8.6	2.8	7.1	71.3
42	.564	.13	.69	.25	.81	.38	5.94	.51	.07	3.8	7.6	1.4	5.3	69.1
43	.556	.11	.67	.22	.78	.34	.89	.45	9.01	3.4	6.7	80.1	3.4	6.8
44	.548	.10	.65	.19	.74	.29	.84	.39	8.94	2.9	5.8	78.7	71.6	4.5
57 45	16.541	33.08	49.62	66.16	82.70	99.24	115.78	132.33	148.87	992.4	1984.9	2977.3	3969.8	4962.2
46	.533	.07	.60	.13	.66	.20	.73	.26	.80	2.0	4.0	6.0	7.9	59.9
47	.525	.05	.58	.10	.62	.15	.68	.20	.73	1.5	3.1	4.6	6.1	7.6
48	.518	.04	.55	.07	.59	.11	.63	.14	.66	1.1	2.1	3.2	4.3	5.4
49	.510	.02	.53	.04	.55	.06	.57	.08	.59	0.6	1.2	1.8	2.5	3.1
57 50	16.503	33.01	49.51	66.01	82.51	99.02	115.52	132.02	148.53	990.2	1980.3	2970.5	3960.6	4950.8
51	.495	2.99	.49	5.98	.47	8.97	.47	1.96	.46	89.7	79.4	69.1	58.8	48.5
52	.487	.97	.46	.95	.43	.92	.41	.90	.39	9.2	8.5	7.7	7.0	6.2
53	.480	.96	.44	.92	.40	.88	.36	.84	.32	8.8	7.5	6.4	5.1	3.9
54	.472	.94	.42	.89	.36	.83	.30	.78	.25	8.3	6.6	5.0	3.3	41.6
57 55	16.465	32.93	49.39	65.86	82.32	98.79	115.25	131.72	148.18	987.9	1975.7	2963.6	3951.5	4939.4
56	.457	.91	.37	.83	.28	.74	.20	.66	.11	7.4	4.8	2.2	49.7	7.1
57	.449	.90	.35	.80	.24	.70	.14	.59	8.04	7.0	3.9	60.9	7.8	4.8
58	.442	.88	.33	.77	.21	.65	.09	.53	7.97	6.5	3.0	59.5	6.0	2.5
59	.434	.87	.30	.74	.17	.60	5.03	.47	.90	6.0	2.1	8.1	4.2	30.2
57 60	16.426	32.85	49.28	65.71	82.13	98.56	114.98	131.41	147.84	985.6	1971.2	2956.8	3942.3	4927.9

Lat.	Latitude 57° to 58°—Meridional arcs					Latitude 57°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 57°30'		Value of 1'	Continuous sums of minutes from latitude 57°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
57 00	30. 934			1856. 03			0 1	1 012. 9	0. 1
1	4	1	30. 94	. 03	1	1 856. 0	0 2	2 025. 8	0. 5
2	4	2	61. 87	. 04	2	3 712. 1	0 3	3 033. 7	1. 1
3	4	3	92. 81	. 04	3	5 568. 1	0 4	4 051. 6	2. 0
4	4	4	123. 75	. 05	4	7 424. 1			
57 05	30. 934	5	154. 68	1856. 05	5	9 280. 2	0 5	5 064. 5	3. 1
6	4	6	185. 62	. 06	6	11 136. 2	0 6	6 077. 4	4. 4
7	4	7	216. 55	. 06	7	12 992. 3	0 7	7 090. 3	6. 0
8	4	8	247. 49	. 07	8	14 848. 4	0 8	8 103. 3	7. 9
9	5	9	278. 43	. 07	9	16 704. 4	0 9	9 116. 2	10. 0
57 10	30. 935	10	309. 36	1856. 08	10	18 560. 5	0 10	10 129. 1	12. 4
11	5	1	340. 30	. 08	1	20 416. 6	0 15	15 193. 6	27. 8
12	5	2	371. 24	. 09	2	22 272. 7	0 20	20 258. 1	49. 4
13	5	3	402. 17	. 09	3	24 128. 7	0 25	25 322. 5	77. 2
14	5	4	433. 11	. 10	4	25 984. 8	0 30	30 387. 0	111. 2
57 15	30. 935	15	464. 04	1856. 10	15	27 840. 9	0 35	35 451. 3	151. 3
16	5	6	494. 98	. 11	6	29 697. 0	0 40	40 515. 6	197. 7
17	5	7	525. 92	. 11	7	31 553. 1	0 45	45 579. 9	250. 2
18	5	8	556. 85	. 12	8	33 409. 3	0 50	50 644. 1	308. 9
19	5	9	587. 79	. 12	9	35 265. 4	0 55	55 708. 2	373. 7
57 20	30. 935	20	618. 73	1856. 13	20	37 121. 5	1 00	60 772. 3	444. 8
21	6	1	649. 66	. 13	1	38 977. 6	1 05	65 836. 2	522. 0
22	6	2	680. 60	. 14	2	40 833. 7	1 10	70 900. 1	605. 4
23	6	3	711. 53	. 14	3	42 689. 9	1 15	75 963. 8	695. 0
24	6	4	742. 47	. 15	4	44 546. 0	1 20	81 027. 5	790. 7
57 25	30. 936	25	773. 41	1856. 15	25	46 402. 2	1 25	86 091. 0	892. 6
26	6	6	804. 34	. 16	6	48 258. 3	1 30	91 154. 3	1 000. 7
27	6	7	835. 28	. 16	7	50 114. 5	1 35	96 217. 6	1 115. 0
28	6	8	866. 22	. 17	8	51 970. 7	1 40	101 280. 7	1 235. 5
29	6	9	897. 15	. 17	9	53 826. 8	1 45	106 343. 6	1 362. 1
57 30	30. 936	30	928. 09	1856. 18	30	55 683. 0	1 50	111 406. 4	1 494. 9
31	6	1	959. 02	. 18	1	57 539. 2	1 55	116 469. 1	1 633. 9
32	6	2	989. 96	. 19	2	59 395. 4	2 00	121 532	1 779
33	7	3	1 020. 90	. 19	3	61 251. 6	2 05	126 595. 3	2 000. 0
34	7	4	1 051. 83	. 20	4	63 107. 8	2 10	131 658. 6	2 225. 0
57 35	30. 937	35	1 082. 77	1856. 20	35	64 964. 0	2 15	136 721. 9	2 450. 0
36	7	6	1 113. 71	. 21	6	66 820. 2	2 20	141 785. 0	2 675. 0
37	7	7	1 144. 64	. 21	7	68 676. 4	2 25	146 848. 1	2 900. 0
38	7	8	1 175. 58	. 22	8	70 532. 6	2 30	151 911. 2	3 125. 0
39	7	9	1 206. 51	. 22	9	72 388. 8	2 35	156 974. 3	3 350. 0
57 40	30. 937	40	1 237. 45	1856. 23	40	74 245. 0	2 40	162 037. 4	3 575. 0
41	7	1	1 268. 39	. 23	1	76 101. 3	2 45	167 100. 5	3 800. 0
42	7	2	1 299. 32	. 24	2	77 957. 5	2 50	172 163. 6	4 025. 0
43	7	3	1 330. 26	. 24	3	79 813. 7	2 55	177 226. 7	4 250. 0
44	7	4	1 361. 20	. 25	4	81 669. 9	3 00	182 289. 8	4 475. 0
57 45	30. 938	45	1 392. 13	1856. 25	45	83 526. 2	3 05	187 352. 9	4 700. 0
46	8	6	1 423. 07	. 26	6	85 382. 5	3 10	192 416. 0	4 925. 0
47	8	7	1 454. 00	. 26	7	87 238. 7	3 15	197 479. 1	5 150. 0
48	8	8	1 484. 94	. 27	8	89 095. 0	3 20	202 542. 2	5 375. 0
49	8	9	1 515. 88	. 27	9	90 951. 2	3 25	207 605. 3	5 600. 0
57 50	30. 938	50	1 546. 81	1856. 28	50	92 807. 5	3 30	212 668. 4	5 825. 0
51	8	1	1 577. 75	. 28	1	94 663. 8	3 35	217 731. 5	6 050. 0
52	8	2	1 608. 69	. 29	2	96 520. 1	3 40	222 794. 6	6 275. 0
53	8	3	1 639. 62	. 29	3	98 376. 4	3 45	227 857. 7	6 500. 0
54	8	4	1 670. 56	. 30	4	100 232. 7	3 50	232 920. 8	6 725. 0
57 55	30. 938	55	1 701. 49	1856. 30	55	102 089. 0	3 55	237 983. 9	6 950. 0
56	8	6	1 732. 43	. 31	6	103 945. 3	4 00	243 047. 0	7 175. 0
57	9	7	1 763. 37	. 31	7	105 801. 6	4 05	248 110. 1	7 400. 0
58	9	8	1 794. 30	. 31	8	107 657. 9	4 10	253 173. 2	7 625. 0
59	9	9	1 825. 24	. 32	9	109 514. 2	4 15	258 236. 3	7 850. 0
57 60	30. 939	60	1 856. 18	1856. 32	60	111 370. 5	4 20	263 299. 4	8 075. 0

Latitude 58° to 59°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
58 00	16.426	32.85	49.28	65.71	82.13	98.56	114.98	131.41	147.84	985.6	1971.2	2956.8	3942.3	4927.9
1	.419	.84	.26	.68	.09	.51	.93	.35	.77	5.1	70.3	5.4	40.5	5.6
2	.411	.82	.23	.65	.06	.47	.87	.29	.70	4.7	69.4	4.0	38.7	3.3
3	.403	.81	.21	.61	.02	.42	.82	.23	.63	4.2	68.4	2.6	36.8	2.0
4	.396	.79	.19	.58	1.98	.38	.77	.17	.56	3.8	67.5	51.3	5.0	18.8
58 05	16.388	32.78	49.16	65.55	81.94	98.33	114.71	131.11	147.49	983.3	1966.6	2949.9	3933.2	4916.5
6	.381	.76	.14	.52	.90	.28	.66	1.04	.42	2.8	5.7	8.5	31.3	4.2
7	.373	.75	.12	.49	.86	.24	.61	0.98	.35	2.4	4.8	7.1	29.5	11.9
8	.365	.73	.10	.46	.83	.19	.56	.92	.29	1.9	3.8	5.8	27.7	9.6
9	.358	.72	.07	.43	.79	.15	.50	.86	.22	1.5	2.9	4.4	25.8	7.3
58 10	16.350	32.70	49.05	65.40	81.75	98.10	114.45	130.80	147.15	981.0	1962.0	2943.0	3924.0	4905.0
11	.342	.68	.03	.37	.71	.05	.40	.74	.08	0.5	1.1	1.6	2.2	2.7
12	.335	.67	9.00	.34	.67	8.01	.34	.68	7.01	80.1	60.2	40.2	20.3	900.4
13	.327	.65	8.98	.31	.64	7.96	.29	.62	6.94	79.6	59.2	38.9	18.5	898.1
14	.319	.64	.96	.28	.60	.92	.23	.56	.87	9.2	8.3	7.5	6.7	5.8
58 15	16.312	32.62	48.93	65.25	81.56	97.87	114.18	130.49	146.81	978.7	1957.4	2936.1	3914.8	4893.5
16	.304	.61	.91	.22	.52	.82	.13	.43	.74	8.2	6.5	4.7	3.0	91.2
17	.296	.59	.89	.19	.48	.78	.07	.37	.67	7.8	5.6	3.4	11.1	88.9
18	.289	.58	.87	.15	.45	.73	4.02	.31	.60	7.3	4.6	2.0	09.3	6.6
19	.281	.56	.84	.12	.41	.69	3.96	.25	.53	6.9	3.7	30.6	7.5	4.3
58 20	16.273	32.55	48.82	65.09	81.37	97.64	113.91	130.19	146.46	976.4	1952.8	2929.2	3905.6	4882.0
21	.266	.53	.80	.06	.33	.59	.86	.13	.39	5.9	1.9	7.8	3.8	79.7
22	.258	.52	.77	.03	.29	.55	.80	.07	.32	5.5	1.0	6.5	2.0	7.4
23	.250	.50	.75	5.00	.25	.50	.75	30.00	.25	5.0	50.0	5.1	900.1	5.1
24	.243	.49	.73	4.97	.21	.46	.70	29.94	.18	4.6	49.1	3.7	898.3	2.8
58 25	16.235	32.47	48.70	64.94	81.18	97.41	113.64	129.88	146.12	974.1	1948.2	2922.3	3896.4	4870.5
26	.227	.45	.68	.91	.14	.36	.59	.82	6.05	3.6	7.3	20.9	4.6	68.2
27	.220	.44	.66	.88	.10	.32	.54	.76	5.98	3.2	6.4	19.6	2.8	5.9
28	.212	.42	.64	.85	.06	.27	.49	.70	.91	2.7	5.4	8.2	90.9	3.6
29	.204	.41	.61	.82	1.02	.23	.43	.64	.84	2.3	4.5	6.8	89.1	61.3
58 30	16.197	32.39	48.59	64.79	80.98	97.18	113.38	129.57	145.77	971.8	1943.6	2915.4	3887.2	4859.0
31	.189	.38	.57	.76	.94	.13	.33	.51	.70	1.3	2.7	4.0	5.4	6.7
32	.181	.36	.54	.73	.90	.09	.27	.45	.63	0.9	1.8	2.7	3.5	4.4
33	.174	.35	.52	.69	.87	.04	.22	.39	.56	0.4	40.8	11.3	81.7	52.1
34	.166	.33	.50	.66	.83	7.00	.16	.33	.49	70.0	39.9	09.9	79.9	49.8
58 35	16.158	32.32	48.47	64.63	80.79	96.95	113.11	129.27	145.43	969.5	1939.0	2908.5	3878.0	4847.5
36	.151	.30	.45	.60	.75	.90	.06	.21	.36	9.0	8.1	7.1	6.2	5.2
37	.143	.29	.43	.57	.71	.86	3.00	.14	.29	8.6	7.2	5.7	4.3	2.9
38	.135	.27	.41	.54	.68	.81	2.95	.08	.22	8.1	6.2	4.4	2.5	40.6
39	.128	.26	.38	.51	.64	.77	.89	9.02	.15	7.7	5.3	3.0	70.6	38.3
58 40	16.120	32.24	48.36	64.48	80.60	96.72	112.84	128.96	145.08	967.2	1934.4	2901.6	3868.8	4836.0
41	.112	.22	.34	.45	.56	.67	.79	.90	5.01	6.7	3.5	900.2	6.9	3.7
42	.105	.21	.31	.42	.52	.63	.73	.84	4.94	6.3	2.6	898.8	5.1	31.4
43	.097	.19	.29	.39	.49	.58	.68	.78	.87	5.8	1.6	7.4	3.3	29.1
44	.089	.18	.27	.36	.45	.54	.62	.71	.80	5.4	30.7	6.1	61.4	6.8
58 45	16.081	32.16	48.24	64.33	80.41	96.49	112.57	128.65	144.73	964.9	1929.8	2894.7	3859.6	4824.4
46	.074	.15	.22	.30	.37	.44	.52	.59	.67	4.4	8.9	3.3	7.7	22.1
47	.066	.13	.20	.27	.33	.40	.46	.53	.60	4.0	8.0	1.9	5.9	19.8
48	.058	.12	.18	.23	.30	.35	.41	.47	.53	3.5	7.0	90.5	4.0	7.5
49	.051	.10	.15	.20	.26	.30	.35	.41	.46	3.0	6.1	89.1	2.2	5.2
58 50	16.043	32.09	48.13	64.17	80.22	96.26	112.30	128.34	144.39	962.6	1925.2	2887.7	3850.3	4812.9
51	.035	.07	.11	.14	.18	.21	.25	.28	.32	2.1	4.3	6.4	48.5	10.6
52	.028	.06	.08	.11	.14	.17	.19	.22	.25	1.7	3.3	5.0	6.6	08.3
53	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.4	3.6	4.8	6.0
54	.012	.02	.04	.05	.06	.07	.08	.10	.11	0.7	1.4	2.2	2.9	3.7
58 55	16.004	32.01	48.01	64.02	80.02	96.03	112.03	128.04	144.04	960.3	1920.5	2880.8	3841.1	4801.3
56	5.997	1.99	7.99	3.99	79.99	5.98	1.98	7.97	3.97	59.8	19.6	79.4	39.2	799.0
57	.989	.98	.97	.96	.95	.93	.92	.91	.90	9.3	8.7	8.0	7.4	6.7
58	.981	.96	.94	.92	.91	.89	.87	.85	.83	8.9	7.7	6.6	5.5	4.4
59	.974	.95	.92	.89	.87	.84	.81	.79	.76	8.4	6.8	5.3	3.7	92.1
58 60	15.966	31.93	47.90	63.86	79.83	95.80	111.76	127.73	143.69	958.0	1915.9	2873.9	3831.8	4789.8

Lat.	Latitude 58° to 59°—Meridional arcs					Latitude 58°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 58°30'		Value of 1'	Continuous sums of minutes from latitude 58°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
58 00	30.939			1856.32			0 1	985.6	0.1
1	9	1	30.94	.33	1	1 856.3	2	1 971.2	0.5
2	9	2	61.88	.33	2	3 712.7	3	2 956.8	1.1
3	9	3	92.82	.34	3	5 569.0	4	3 942.3	1.9
4	9	4	123.76	.34	4	7 425.3			
58 05	30.939	5	154.71	1856.35	5	9 281.7	0 5	4 927.9	3.0
6	9	6	185.65	.35	6	11 138.0	6	5 913.5	4.4
7	9	7	216.59	.36	7	12 994.4	7	6 899.1	6.0
8	9	8	247.53	.36	8	14 850.7	8	7 884.7	7.8
9	39	9	278.47	.37	9	16 707.1	9	8 870.3	9.8
58 10	30.940	10	309.41	1856.37	10	18 563.5	0 10	9 855.8	12.2
11	0	1	340.35	.38	1	20 419.9	15	14 783.7	27.4
12	0	2	371.29	.38	2	22 276.2	20	19 711.6	48.6
13	0	3	402.24	.39	3	24 132.6	25	24 639.5	76.0
14	0	4	433.18	.39	4	25 989.0	30	29 567.3	109.4
58 15	30.940	15	464.12	1856.40	15	27 845.4	0 35	34 495.0	148.9
16	0	6	495.06	.40	6	29 701.8	40	39 422.8	194.5
17	0	7	526.00	.41	7	31 558.2	45	44 350.4	246.2
18	0	8	556.94	.41	8	33 414.6	50	49 278.0	303.9
19	0	9	587.88	.42	9	35 271.0	55	54 205.5	367.7
58 20	30.940	20	618.82	1856.42	20	37 127.5	1 00	59 132.9	437.6
21	0	1	649.77	.43	1	38 983.9	05	64 060.2	513.6
22	1	2	680.71	.43	2	40 840.3	10	68 987.5	595.6
23	1	3	711.65	.44	3	42 696.8	15	73 914.7	683.8
24	1	4	742.59	.44	4	44 553.2	20	78 841.7	778.0
58 25	30.941	25	773.53	1856.45	25	46 409.6	1 25	83 768.6	878.3
26	1	6	804.47	.45	6	48 266.1	30	88 695.4	984.6
27	1	7	835.41	.46	7	50 122.6	35	93 622.0	1 097.1
28	1	8	866.35	.46	8	51 979.0	40	98 548.5	1 215.6
29	1	9	897.30	.47	9	53 835.5	45	103 474.8	1 340.2
58 30	30.941	30	928.24	1856.47	30	55 692.0	1 50	108 401.0	1 470.8
31	1	1	959.18	.48	1	57 548.4	55	113 327.1	1 607.6
32	1	2	990.12	.48	2	59 404.9	2 00	118 253	1 750
33	1	3	1 021.06	.49	3	61 261.4	3 00	177 347	3 938
34	2	4	1 052.00	.49	4	63 117.9	4 00	236 402	7 000
58 35	30.942	35	1 082.94	1856.50	35	64 974.4	5 00	295 406	10 936
36	2	6	1 113.88	.50	6	66 830.9	6 00	354 344	15 744
37	2	7	1 144.83	.51	7	68 687.4	7 00	413 205	21 425
38	2	8	1 175.77	.51	8	70 543.9	8 00	471 976	27 976
39	2	9	1 206.71	.52	9	72 400.4	9 00	530 643	35 396
58 40	30.942	40	1 237.65	1856.52	40	74 256.9	10 00	589 194	43 684
41	2	1	1 268.59	.53	1	76 113.5	11 00	647 616	52 837
42	2	2	1 299.53	.53	2	77 970.0	12 00	705 896	62 854
43	2	3	1 330.47	.54	3	79 826.5	13 00	764 021	73 733
44	2	4	1 361.41	.54	4	81 683.1	14 00	821 979	85 470
58 45	30.942	45	1 392.35	1856.55	45	83 539.6	15 00	879 757	98 064
46	3	6	1 423.30	.55	6	85 396.2	16 00	937 342	111 512
47	3	7	1 454.24	.56	7	87 252.7	17 00	994 722	125 811
48	3	8	1 485.18	.56	8	89 109.3	18 00	1 051 884	140 957
49	3	9	1 516.12	.57	9	90 965.8	19 00	1 108 815	156 948
58 50	30.943	50	1 547.06	1856.57	50	92 822.4	20 00	1 165 504	173 780
51	3	1	1 578.00	.58	1	94 679.0	21 00	1 221 937	191 449
52	3	2	1 608.94	.58	2	96 535.6	22 00	1 278 103	209 951
53	3	3	1 639.88	.59	3	98 392.1	23 00	1 333 988	229 282
54	3	4	1 670.83	.59	4	100 248.7	24 00	1 389 581	249 439
58 55	30.943	55	1 701.77	1856.59	55	102 105.3	25 00	1 444 870	270 416
56	3	6	1 732.71	.60	6	103 961.9	26 00	1 499 843	292 209
57	3	7	1 763.65	.60	7	105 818.5	27 00	1 554 486	314 813
58	3	8	1 794.50	.61	8	107 675.1	28 00	1 608 789	338 224
59	4	9	1 825.53	.61	9	109 531.8	29 00	1 662 740	362 436
58 60	30.944	60	1 856.47	1856.62	60	111 388.4	30 00	1 716 327	387 443

Latitude 59° to 60°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
59 0	15.966	31.93	47.90	63.86	79.83	95.80	111.76	127.73	143.69	958.0	1915.9	2873.9	3831.8	4789.8
1	.953	.92	.88	.83	.79	.75	.71	.67	.62	7.5	5.0	2.5	30.0	7.5
2	.951	.90	.85	.80	.75	.70	.65	.61	.55	7.0	4.1	71.1	28.1	5.2
3	.943	.89	.83	.77	.71	.66	.60	.55	.48	6.6	3.1	69.7	6.3	2.8
4	.935	.87	.81	.74	.67	.61	.54	.48	.41	6.1	2.2	8.3	4.4	80.5
59 05	15.927	31.85	47.78	63.71	79.63	95.56	111.49	127.42	143.34	955.6	1911.3	2866.9	3822.6	4778.2
6	.920	.84	.76	.67	.60	.52	.44	.36	.28	5.2	10.4	5.5	20.7	5.9
7	.912	.82	.74	.65	.56	.47	.38	.30	.21	4.7	09.5	4.1	18.9	3.6
8	.904	.81	.71	.62	.52	.43	.33	.23	.14	4.3	8.5	2.8	7.0	71.3
9	.896	.79	.69	.58	.48	.38	.27	.17	.07	3.8	7.6	1.4	5.1	68.9
59 10	15.889	31.78	47.67	63.55	79.44	95.33	111.22	127.11	143.00	953.3	1906.7	2860.0	3813.3	4766.6
11	.881	.76	.64	.52	.40	.29	.17	7.05	2.93	2.9	5.8	58.6	11.4	4.3
12	.873	.75	.62	.49	.36	.24	.11	6.99	.86	2.4	4.8	7.2	09.6	62.0
13	.866	.73	.60	.46	.33	.19	.06	.92	.79	1.9	3.9	5.8	7.7	59.7
14	.858	.72	.57	.43	.29	.15	1.00	.86	.72	1.5	2.9	4.4	5.9	7.3
59 15	15.850	31.70	47.55	63.40	79.25	95.10	110.95	126.80	142.65	951.0	1902.0	2853.0	3804.0	4755.0
16	.842	.68	.53	.37	.21	.05	.90	.74	.58	0.5	1.1	1.6	2.2	2.7
17	.835	.67	.50	.34	.17	5.00	.84	.68	.51	50.1	900.2	50.2	800.3	50.4
18	.827	.65	.48	.31	.14	4.95	.79	.61	.44	49.6	899.2	48.8	798.4	48.1
19	.819	.64	.46	.28	.10	.91	.73	.55	.37	9.1	8.3	7.4	6.6	5.7
59 20	15.811	31.62	47.43	63.25	79.06	94.87	110.68	126.49	142.30	948.7	1897.4	2846.0	3794.7	4743.4
21	.804	.61	.41	.22	9.02	.82	.63	.43	.23	8.2	6.5	4.6	2.9	41.1
22	.796	.59	.39	.19	8.98	.78	.57	.37	.16	7.8	5.5	3.3	91.0	38.8
23	.788	.58	.36	.15	.94	.73	.52	.30	.09	7.3	4.6	1.9	89.2	6.4
24	.780	.56	.34	.12	.90	.68	.46	.24	2.02	6.8	3.6	40.5	7.3	4.1
59 25	15.773	31.55	47.32	63.09	78.87	94.64	110.41	126.18	141.96	946.4	1892.7	2839.1	3785.4	4731.8
26	.765	.53	.29	.06	.83	.59	.36	.12	.89	5.9	1.8	7.7	3.6	29.5
27	.757	.52	.27	.03	.79	.54	.30	6.06	.82	5.4	90.9	6.3	81.7	7.1
28	.749	.50	.25	3.00	.75	.50	.25	5.99	.75	5.0	89.9	4.9	79.8	4.8
29	.742	.49	.22	2.97	.71	.45	.19	.93	.68	4.5	9.0	3.5	8.0	2.5
59 30	15.734	31.47	47.20	62.94	78.67	94.40	110.14	125.87	141.61	944.0	1888.1	2832.1	3776.1	4720.2
31	.726	.45	.18	.91	.63	.36	.09	.81	.54	3.6	7.2	30.7	4.3	17.8
32	.718	.44	.15	.87	.59	.31	.03	.75	.47	3.1	6.2	29.3	2.4	5.5
33	.711	.42	.13	.84	.55	.26	09.98	.68	.40	2.6	5.3	7.9	70.5	3.2
34	.703	.41	.11	.81	.51	.22	09.92	.62	.33	2.2	4.3	6.5	68.7	10.8
59 35	15.695	31.39	47.08	62.78	78.48	94.17	109.87	125.56	141.26	941.7	1883.4	2825.1	3766.8	4708.5
36	.687	.38	.06	.75	.44	.12	.81	.50	.19	1.2	2.5	3.7	4.9	6.2
37	.680	.36	.04	.72	.40	.08	.76	.44	.12	0.8	1.6	2.3	3.1	3.9
38	.672	.34	7.02	.68	.36	4.03	.70	.37	1.05	40.3	80.6	20.9	61.2	701.5
39	.664	.33	6.99	.65	.32	3.98	.64	.31	0.97	39.8	79.7	19.5	59.4	699.2
59 40	15.656	31.31	46.97	62.62	78.28	93.94	109.59	125.25	140.91	939.4	1878.8	2818.1	3757.5	4696.9
41	.648	.30	.95	.59	.24	.89	.54	.19	.84	8.9	7.8	6.7	5.6	4.5
42	.641	.28	.92	.56	.20	.84	.48	.13	.77	8.4	6.9	5.3	3.8	92.2
43	.633	.27	.90	.53	.17	.80	.43	.06	.70	8.0	6.0	3.9	1.9	89.9
44	.625	.25	.88	.50	.12	.75	.37	5.00	.63	7.5	5.0	2.5	50.0	7.5
59 45	15.617	31.23	46.85	62.47	78.09	93.70	109.32	124.94	140.56	937.0	1874.1	2811.1	3748.2	4685.2
46	.610	.22	.83	.44	.05	.66	.27	.88	.49	6.6	3.2	09.7	6.3	2.9
47	.602	.20	.81	.40	8.01	.61	.21	.81	.42	6.1	2.2	8.3	4.4	80.5
48	.594	.19	.78	.38	7.97	.56	.16	.75	.35	5.6	1.3	6.9	2.6	78.2
49	.586	.17	.76	.34	.93	.52	.10	.69	.28	5.2	70.3	5.5	40.7	5.9
59 50	15.579	31.16	46.74	62.31	77.89	93.47	109.05	124.63	140.21	934.7	1869.4	2804.1	3738.8	4673.6
51	.571	.14	.71	.23	.85	.42	9.00	.57	.14	4.2	8.5	02.7	7.0	71.2
52	.563	.13	.69	.25	.81	.38	8.94	.50	.07	3.8	7.5	801.3	5.1	68.9
53	.555	.11	.67	.22	.77	.33	.89	.44	40.00	3.3	6.6	799.9	3.2	6.5
54	.547	.09	.64	.18	.73	.28	.83	.37	39.92	2.8	5.7	8.5	31.4	4.2
59 55	15.540	31.08	46.62	62.15	77.70	93.24	108.78	124.31	139.86	932.4	1864.7	2797.1	3729.5	4661.9
56	.532	.06	.60	.12	.66	.19	.72	.25	.79	1.9	3.8	5.7	7.6	59.5
57	.524	.05	.57	.09	.62	.14	.67	.19	.72	1.4	2.9	4.3	5.8	7.2
58	.516	.03	.55	.06	.58	.10	.61	.13	.65	1.0	1.9	2.9	3.9	4.9
59	.508	.02	.52	.03	.54	.05	.56	.07	.58	0.5	1.0	1.5	2.0	2.5
59 60	15.501	31.00	46.50	62.00	77.50	93.00	108.50	124.00	139.51	930.0	1860.1	2790.1	3720.1	4650.2

Lat.	Latitude 59° to 60°—Meridional arcs						Latitude 59°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 59°30'		Value of 1'		Continuous sums of minutes from latitude 59°00'		Longitude	X	Y
	Meters	''	Meters	Meters	Meters	'	Meters	° '	Meters	Meters	
59 00	30.944			1856.62				0 1	958.0	0.1	
1	4	1	30.95	.62	1	1 856.6	0 2	1 915.9	0.5		
2	4	2	61.89	.63	2	3 713.2	3	2 873.9	1.1		
3	4	3	92.84	.63	3	5 569.9	4	3 831.9	1.9		
4	4	4	123.78	.64	4	7 426.5					
59 05	30.944	5	154.73	1856.64	5	9 283.2	0 5	4 789.8	3.0		
6	4	6	185.68	.65	6	11 139.8	6	5 747.7	4.3		
7	4	7	216.62	.65	7	12 996.4	7	6 705.7	5.9		
8	4	8	247.57	.66	8	14 853.1	8	7 663.7	7.6		
9	4	9	278.51	.66	9	16 709.8	9	8 621.6	9.7		
59 10	30.944	10	309.46	1856.67	10	18 566.4	0 10	9 579.6	11.9		
11	5	1	340.41	.67	1	20 423.1	15	14 369.3	26.9		
12	5	2	371.35	.68	2	22 279.8	20	19 159.1	47.8		
13	5	3	402.30	.68	3	24 136.5	25	23 948.8	74.6		
14	5	4	433.25	.69	4	25 993.1	30	28 738.5	107.5		
59 15	30.945	15	464.19	1856.69	15	27 849.8	0 35	33 528.1	146.3		
16	5	6	495.14	.70	6	29 706.5	40	38 317.7	191.1		
17	5	7	526.08	.70	7	31 563.2	45	43 107.2	241.8		
18	5	8	557.03	.71	8	33 419.9	50	47 896.7	298.6		
19	5	9	587.98	.71	9	35 276.6	55	52 686.1	361.2		
59 20	30.945	20	618.92	1856.72	20	37 133.4	1 00	57 475.4	429.9		
21	5	1	649.87	.72	1	38 990.1	05	62 264.6	504.5		
22	5	2	680.81	.73	2	40 846.8	10	67 053.7	585.2		
23	6	3	711.76	.73	3	42 703.5	15	71 842.7	671.7		
24	6	4	742.71	.74	4	44 560.3	20	76 631.6	764.3		
59 25	30.946	25	773.65	1856.74	25	46 417.0	1 25	81 420.4	862.8		
26	6	6	804.60	.75	6	48 273.7	30	86 209.0	967.3		
27	6	7	835.54	.75	7	50 130.5	35	90 997.5	1 077.8		
28	6	8	866.49	.75	8	51 987.2	40	95 785.9	1 194.2		
29	6	9	897.44	.76	9	53 844.0	45	100 574.1	1 316.6		
59 30	30.946	30	928.38	1856.76	30	55 700.8	1 50	105 362.2	1 445.0		
31	6	1	959.33	.77	1	57 557.5	55	110 150.1	1 579.3		
32	6	2	990.27	.77	2	59 414.3	2 00	114 938	1 720		
33	6	3	1 021.22	.78	3	61 271.1	3 00	172 375	3 869		
34	6	4	1 052.17	.78	4	63 127.9	4 00	229 773	6 877		
59 35	30.946	35	1 083.11	1856.79	35	64 984.6	5 00	287 120	10 744		
36	7	6	1 114.06	.79	6	66 841.4	6 00	344 402	15 468		
37	7	7	1 145.00	.80	7	68 698.2	7 00	401 608	21 048		
38	7	8	1 175.95	.80	8	70 555.0	8 00	458 723	27 484		
39	7	9	1 206.90	.81	9	72 411.8	9 00	515 736	34 773		
59 40	30.947	40	1 237.84	1856.81	40	74 268.7	10 00	572 633	42 914		
41	7	1	1 268.79	.82	1	76 125.5	11 00	629 403	51 906		
42	7	2	1 299.74	.82	2	77 982.3	12 00	686 031	61 746		
43	7	3	1 330.68	.83	3	79 839.1	13 00	742 506	72 432		
44	7	4	1 361.63	.83	4	81 695.9	14 00	798 815	83 961		
59 45	30.947	45	1 392.57	1856.84	45	83 552.8	15 00	854 945	96 332		
46	7	6	1 423.52	.84	6	85 409.6	16 00	910 883	109 541		
47	7	7	1 454.47	.85	7	87 266.5	17 00	966 618	123 585		
48	8	8	1 485.41	.85	8	89 123.3	18 00	1 022 136	138 462		
49	8	9	1 516.36	.86	9	90 980.2	19 00	1 077 426	154 167		
59 50	30.948	50	1 547.30	1856.86	50	92 837.0	20 00	1 132 474	170 698		
51	8	1	1 578.25	.87	1	94 693.9	21 00	1 187 269	188 050		
52	8	2	1 609.20	.87	2	96 550.8	22 00	1 241 799	206 221		
53	8	3	1 640.14	.88	3	98 407.6	23 00	1 296 050	225 205		
54	8	4	1 671.09	.88	4	100 264.5	24 00	1 350 011	244 998		
59 55	30.948	55	1 702.03	1856.88	55	102 121.4	25 00	1 403 671	265 597		
56	8	6	1 732.98	.89	6	103 978.3	26 00	1 457 015	286 995		
57	8	7	1 763.93	.89	7	105 835.2	27 00	1 510 034	309 190		
58	8	8	1 794.87	.90	8	107 692.1	28 00	1 562 715	332 175		
59	8	9	1 825.82	.90	9	109 549.0	29 00	1 615 047	355 946		
59 60	30.948	60	1 856.76	1856.91	60	111 405.9	30 00	1 667 016	380 497		

Latitude 60° to 61°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
60 00	15.501	31.00	46.50	62.00	77.50	93.00	108.50	124.00	139.51	930.0	1860.1	2790.1	3720.1	4650.2
1	.493	0.99	.48	1.97	.46	92.96	.45	123.94	.44	29.6	59.2	88.7	18.3	47.8
2	.485	.97	.45	.94	.42	.91	.39	.88	.37	9.1	8.2	7.3	6.4	5.5
3	.477	.96	.43	.91	.38	.86	.34	.81	.30	8.6	7.3	5.9	4.5	3.2
4	.469	.94	.41	.88	.34	.82	.28	.75	.23	8.2	6.3	4.5	2.6	40.8
60 05	15.462	30.92	46.38	61.84	77.31	92.77	108.23	123.69	139.15	927.7	1855.4	2783.1	3710.8	4638.5
6	.454	.91	.36	.81	.27	.72	.18	.63	.08	7.2	4.5	1.7	08.9	6.1
7	.446	.89	.34	.78	.23	.68	.12	.57	9.01	6.8	3.5	80.3	7.0	3.8
8	.438	.88	.31	.75	.19	.63	.07	.50	8.94	6.3	2.6	78.9	5.2	1.4
9	.430	.86	.29	.72	.15	.58	8.01	.44	.87	5.8	1.6	7.5	3.3	29.1
60 10	15.423	30.85	46.27	61.69	77.11	92.54	107.96	123.38	138.80	925.4	1850.7	2776.1	3701.4	4626.8
11	.415	.83	.24	.66	.07	.49	.91	.32	.73	4.9	49.8	4.7	699.5	4.4
12	.407	.81	.22	.63	7.03	.44	.85	.26	.66	4.4	8.8	3.2	7.7	22.1
13	.399	.80	.20	.60	6.99	.39	.80	.19	.59	3.9	7.9	1.8	5.8	19.7
14	.391	.79	.17	.57	.95	.35	.74	.13	.52	3.5	6.9	70.4	3.9	7.4
60 15	15.383	30.77	46.15	61.53	76.92	92.30	107.69	123.07	138.45	923.0	1846.0	2769.0	3692.0	4615.0
16	.376	.75	.13	.50	.88	.25	.63	3.01	.38	2.5	5.1	7.6	90.2	2.7
17	.368	.74	.10	.47	.84	.21	.58	2.94	.31	2.1	4.1	6.2	88.3	10.4
18	.360	.72	.08	.44	.80	.16	.52	.88	.24	1.6	3.2	4.8	6.4	08.0
19	.352	.70	.06	.41	.76	.11	.47	.82	.17	1.1	2.2	3.4	4.5	5.7
60 20	15.344	30.69	46.03	61.38	76.72	92.07	107.41	122.76	138.10	920.7	1841.3	2762.0	3682.7	4603.3
21	.337	.67	6.01	.35	.68	2.02	.36	.70	8.03	0.2	40.4	60.6	80.8	601.0
22	.329	.66	5.99	.32	.64	1.97	.30	.63	7.96	19.7	39.4	59.2	78.9	598.6
23	.321	.64	.96	.28	.60	.93	.25	.57	.89	9.3	8.5	7.8	7.0	6.3
24	.313	.63	.94	.25	.56	.88	.19	.51	.82	8.8	7.5	6.4	5.1	3.9
60 25	15.305	30.61	45.92	61.22	76.53	91.83	107.14	122.44	137.75	918.3	1836.6	2754.9	3673.3	4591.6
26	.297	.59	.89	.19	.49	.78	.08	.38	.67	7.8	5.7	3.5	71.4	89.2
27	.290	.58	.87	.16	.45	.74	7.03	.32	.60	7.4	4.7	2.1	69.5	6.9
28	.282	.56	.85	.12	.41	.69	6.97	.25	.53	6.9	3.8	50.7	7.6	4.5
29	.274	.55	.82	.09	.37	.64	.92	.19	.46	6.4	2.8	49.3	5.7	82.2
60 30	15.266	30.53	45.80	61.06	76.33	91.60	106.86	122.13	137.39	916.0	1831.9	2747.9	3663.9	4579.8
31	.258	.51	.78	.03	.29	.55	.81	.07	.32	5.5	1.0	6.5	2.0	7.5
32	.250	.50	.75	1.00	.25	.50	.75	2.00	.25	5.0	30.0	5.1	60.1	5.1
33	.243	.48	.73	0.97	.21	.46	.70	1.94	.18	4.6	29.1	3.7	58.2	2.8
34	.235	.47	.70	.94	.17	.41	.64	.88	.11	4.1	8.1	2.3	6.3	70.4
60 35	15.227	30.45	45.68	60.91	76.14	91.36	106.59	121.82	137.04	913.6	1827.2	2740.8	3654.5	4568.1
36	.219	.44	.66	.87	.10	.31	.53	.75	6.97	3.1	6.3	39.4	2.6	5.7
37	.211	.42	.63	.84	.06	.27	.48	.69	.90	2.7	5.4	8.0	50.7	3.4
38	.203	.41	.61	.81	6.02	.22	.42	.63	.83	2.2	4.4	6.6	48.8	61.0
39	.196	.39	.59	.78	5.98	.17	.37	.56	.76	1.7	3.4	5.2	6.9	58.7
60 40	15.188	30.38	45.56	60.75	75.94	91.13	106.31	121.50	136.69	911.3	1822.5	2733.8	3645.0	4556.3
41	.180	.36	.54	.72	.90	.08	.26	.44	.62	0.8	1.6	2.4	3.2	4.0
42	.172	.35	.52	.69	.86	1.03	.20	.37	.55	10.3	20.6	31.0	41.3	51.6
43	.164	.33	.49	.66	.82	.93	.15	.31	.48	09.8	19.7	29.5	39.4	49.2
44	.156	.32	.47	.63	.78	.94	.09	.25	.41	9.4	8.8	8.1	7.5	6.9
60 45	15.148	30.30	45.44	60.59	75.75	90.89	106.04	121.18	136.33	908.9	1817.8	2726.7	3635.6	4544.5
46	.141	.28	.42	.56	.71	.84	5.98	.12	.26	8.4	6.9	5.3	3.8	42.2
47	.133	.27	.40	.53	.67	.80	.93	.06	.19	8.0	5.9	3.9	1.8	39.8
48	.125	.25	.38	.50	.63	.75	.87	1.00	.12	7.5	5.0	2.5	30.0	7.5
49	.117	.24	.35	.47	.59	.70	.82	0.93	6.05	7.0	4.0	21.1	28.1	5.1
60 50	15.109	30.22	45.33	60.44	75.55	90.65	105.76	120.87	135.98	906.5	1813.1	2719.6	3626.2	4532.7
51	.101	.20	.30	.41	.51	.61	.71	.81	.91	6.1	2.2	8.2	4.3	30.4
52	.093	.19	.28	.37	.47	.56	.65	.75	.84	5.6	1.2	6.8	2.4	28.0
53	.086	.17	.26	.34	.43	.51	.60	.68	.77	5.1	10.3	5.4	20.6	5.7
54	.078	.16	.23	.31	.39	.47	.54	.62	.70	4.7	09.3	4.0	18.6	3.3
60 55	15.070	30.14	45.21	60.28	75.35	90.42	105.49	120.55	135.62	904.2	1808.4	2712.5	3616.7	4520.9
56	.062	.12	.19	.25	.31	.37	.43	.49	.56	3.7	7.4	11.2	4.9	18.6
57	.054	.11	.16	.22	.27	.32	.38	.43	.48	3.2	6.5	09.7	3.0	6.2
58	.046	.09	.14	.18	.23	.28	.32	.37	.41	2.8	5.6	8.3	11.1	3.9
59	.038	.08	.11	.15	.19	.23	.27	.30	.34	2.3	4.6	6.9	09.2	11.5
60 60	15.030	30.06	45.09	60.12	75.15	90.18	105.21	120.24	135.27	901.8	1803.7	2705.5	3607.3	4509.1

Lat.	Latitude 60° to 61°—Meridional arcs					Latitude 60°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 60°30'		Value of 1'	Continuous sums of minutes from latitude 60°00'		Longitude	X	Y
		Meters	"		Meters	'			
60 00	30.948			1856.91			0 1	930.0	0.1
1	9	1	30.95	.91	1	1 856.9	0 2	1 860.1	0.5
2	9	2	61.90	.92	2	3 713.8	0 3	2 790.1	1.1
3	9	3	92.85	.92	3	5 570.7	0 4	3 720.2	1.9
4	9	4	123.80	.93	4	7 427.7			
60 05	30.949	5	154.75	1856.93	5	9 284.6	0 5	4 650.2	2.9
6	9	6	185.71	.94	6	11 141.5	0 6	5 580.2	4.2
7	9	7	216.66	.94	7	12 998.5	0 7	6 510.3	5.7
8	9	8	247.61	.95	8	14 855.4	0 8	7 440.3	7.5
9	9	9	278.56	.95	9	16 712.4	0 9	8 370.4	9.5
60 10	30.949	10	309.51	1856.96	10	18 569.3	0 10	9 300.4	11.7
11	9	1	340.46	.96	1	20 426.3	0 15	13 950.5	26.4
12	49	2	371.41	.97	2	22 283.2	0 20	18 600.6	46.9
13	50	3	402.36	.97	3	24 140.2	0 25	23 250.7	78.2
14	0	4	433.31	.98	4	25 997.2	0 30	27 900.8	105.4
60 15	30.950	15	464.26	1856.98	15	27 854.2	0 35	32 550.8	148.5
16	0	6	495.21	.98	6	29 711.1	0 40	37 200.8	187.4
17	0	7	526.16	.99	7	31 568.1	0 45	41 850.7	237.2
18	0	8	557.12	6.99	8	33 425.1	0 50	46 500.6	292.8
19	0	9	588.07	7.00	9	35 282.1	0 55	51 150.3	354.3
60 20	30.950	20	619.02	1857.00	20	37 139.1	1 00	55 800.0	421.7
21	0	1	649.97	.01	1	38 996.1	0 05	60 449.6	494.9
22	0	2	680.92	.01	2	40 853.1	0 10	65 099.2	574.0
23	0	3	711.87	.02	3	42 710.1	0 15	69 738.6	658.9
24	0	4	742.82	.02	4	44 567.2	0 20	74 397.9	749.7
60 25	30.950	25	773.77	1857.03	25	46 424.2	1 25	79 047.0	846.4
26	1	6	804.72	.03	6	48 281.2	0 30	83 696.1	948.8
27	1	7	835.67	.04	7	50 138.2	0 35	88 345.0	1 057.1
28	1	8	866.62	.04	8	51 995.3	0 40	92 993.8	1 171.3
29	1	9	897.57	.05	9	53 852.3	0 45	97 642.4	1 291.3
60 30	30.951	30	928.53	1857.05	30	55 709.4	1 50	102 290.9	1 417.2
31	1	1	959.48	.06	1	57 566.4	0 55	106 939.2	1 549.0
32	1	2	990.43	.06	2	59 423.5	2 00	111 587	1 687
33	1	3	1 021.38	.07	3	61 280.6	3 00	167 349	3 795
34	1	4	1 052.33	.07	4	63 137.6	4 00	223 073	6 745
60 35	30.951	35	1 083.28	1857.07	35	64 994.7	5 00	278 745	10 538
36	1	6	1 114.23	.08	6	66 851.8	6 00	334 354	15 172
37	1	7	1 145.18	.08	7	68 708.9	7 00	389 887	20 645
38	1	8	1 176.13	.09	8	70 566.0	8 00	445 330	26 957
39	2	9	1 207.08	.09	9	72 423.1	9 00	500 672	34 107
60 40	30.952	40	1 238.03	1857.10	40	74 280.1	10 00	555 899	42 092
41	2	1	1 268.98	.10	1	76 137.2	11 00	611 000	50 911
42	2	2	1 299.94	.11	2	77 994.4	12 00	665 961	60 562
43	2	3	1 330.89	.11	3	79 851.5	13 00	720 769	71 043
44	2	4	1 361.84	.12	4	81 708.6	14 00	775 413	82 350
60 45	30.952	45	1 392.79	1857.12	45	83 565.7	15 00	829 880	94 482
46	2	6	1 423.74	.13	6	85 422.8	16 00	884 157	107 436
47	2	7	1 454.69	.13	7	87 280.0	17 00	938 232	121 209
48	2	8	1 485.64	.14	8	89 137.1	18 00	992 093	135 798
49	2	9	1 516.59	.14	9	90 994.2	19 00	1 045 727	151 199
60 50	30.952	50	1 547.54	1857.15	50	92 851.4	20 00	1 099 123	167 409
51	3	1	1 578.49	.15	1	94 708.5	21 00	1 152 267	184 424
52	3	2	1 609.44	.15	2	96 565.7	22 00	1 205 148	202 241
53	3	3	1 640.40	.16	3	98 422.8	23 00	1 257 753	220 854
54	3	4	1 671.35	.16	4	100 280.0	24 00	1 310 072	240 261
60 55	30.953	55	1 702.30	1857.17	55	102 137.2	25 00	1 362 091	260 456
56	3	6	1 733.25	.17	6	103 994.3	26 00	1 413 798	281 436
57	3	7	1 764.20	.18	7	105 851.5	27 00	1 465 183	303 194
58	3	8	1 795.15	.18	8	107 708.7	28 00	1 516 233	325 726
59	3	9	1 826.10	.19	9	109 565.9	29 00	1 566 937	349 028
60 60	30.953	60	1 857.05	1857.19	60	111 423.1	30 00	1 617 283	373 093

Latitude 61° to 62°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
61 00	15.030	30.06	45.09	60.12	75.15	90.18	105.21	120.24	135.27	901.8	1803.7	2705.5	3607.3	4509.1
1	.023	.05	.07	.09	.11	.14	.16	.18	.20	1.4	2.7	4.1	5.4	6.8
2	.015	.03	.04	.06	.07	.09	.10	.12	.13	0.9	1.8	2.6	3.5	4.4
3	.007	.01	.02	.03	5.03	90.04	5.05	20.05	5.06	900.4	800.8	701.2	601.6	502.0
4	4.999	30.00	5.00	60.00	4.99	89.99	4.99	19.99	4.99	899.9	799.9	699.8	599.7	499.7
61 05	14.991	29.98	44.97	59.96	74.96	89.95	104.94	119.93	134.91	899.5	1798.9	2698.4	3597.9	4497.3
6	.983	.97	.95	.93	.92	.90	.88	.87	.85	9.0	8.0	7.0	6.0	5.0
7	.975	.95	.93	.90	.88	.85	.83	.80	.78	8.5	7.0	5.6	4.1	2.6
8	.967	.93	.90	.87	.84	.80	.77	.74	.70	8.0	6.1	4.1	2.2	90.2
9	.960	.92	.88	.84	.80	.76	.72	.67	.63	7.6	5.1	2.7	90.3	87.9
61 10	14.952	29.90	44.85	59.81	74.76	89.71	104.66	119.61	134.56	897.1	1794.2	2691.3	3588.4	4485.5
11	.944	.89	.83	.78	.72	.66	.61	.55	.49	6.6	3.3	89.9	6.5	3.1
12	.936	.87	.81	.74	.68	.62	.55	.49	.42	6.2	2.3	8.5	4.6	80.8
13	.928	.86	.78	.71	.64	.57	.50	.42	.35	5.7	1.4	7.0	2.7	78.4
14	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	90.4	5.6	80.8	6.0
61 15	14.912	29.82	44.74	59.65	74.56	89.47	104.39	119.30	134.21	894.7	1789.5	2684.2	3578.9	4473.6
16	.904	.81	.71	.62	.52	.43	.33	.23	.14	4.3	8.5	2.8	7.0	71.3
17	.896	.79	.69	.59	.48	.38	.28	.17	4.06	3.8	7.6	81.3	5.1	68.9
18	.888	.78	.67	.55	.44	.33	.22	.11	3.99	3.3	6.6	79.9	3.2	6.5
19	.881	.76	.64	.52	.40	.28	.17	9.04	.92	2.8	5.7	8.5	71.3	4.2
61 20	14.873	29.75	44.62	59.49	74.36	89.24	104.11	118.98	133.85	892.4	1784.7	2677.1	3569.4	4461.8
21	.865	.73	.59	.46	.32	.19	.06	.92	.78	1.9	3.8	5.7	7.5	59.4
22	.857	.71	.57	.43	.28	.14	4.00	.85	.71	1.4	2.8	4.2	5.6	7.1
23	.849	.70	.55	.40	.24	.09	3.95	.79	.64	0.9	1.9	2.8	3.7	4.7
24	.841	.68	.52	.36	.20	.05	.89	.73	.57	0.5	0.9	1.4	1.9	52.3
61 25	14.833	29.67	44.50	59.33	74.17	89.00	103.84	118.67	133.50	890.0	1780.0	2670.0	3560.0	4449.9
26	.825	.65	.48	.30	.13	8.95	.78	.60	.43	89.5	79.0	68.6	58.1	7.6
27	.817	.63	.45	.27	.09	.90	.72	.54	.35	9.0	8.1	7.1	6.2	5.2
28	.809	.62	.43	.24	.05	.86	.67	.48	.28	8.6	7.1	5.7	4.3	2.8
29	.802	.60	.40	.21	4.01	.81	.62	.41	.21	8.1	6.2	4.3	2.4	40.5
61 30	14.794	29.59	44.38	59.17	73.97	88.76	103.56	118.35	133.14	887.6	1775.2	2662.9	3550.5	4438.1
31	.786	.57	.36	.14	.93	.71	.50	.29	.07	7.1	4.3	1.4	48.6	5.7
32	.778	.56	.33	.11	.89	.67	.45	.22	3.00	6.7	3.3	60.0	6.7	3.3
33	.770	.54	.31	.08	.85	.62	.39	.16	2.93	6.2	2.4	58.6	4.8	31.0
34	.762	.52	.29	.05	.81	.57	.34	.10	.86	5.7	1.4	7.1	2.9	28.6
61 35	14.754	29.51	44.26	59.02	73.77	88.52	103.28	118.03	132.78	885.2	1770.5	2655.7	3541.0	4426.2
36	.746	.49	.24	8.98	.73	.48	.22	7.97	.71	4.8	69.5	4.3	39.1	3.8
37	.738	.48	.21	.95	.69	.43	.17	.91	.64	4.3	8.6	2.9	7.2	21.5
38	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.4	5.3	19.1
39	.722	.44	.17	.89	.61	.33	.06	.78	.50	3.3	6.7	50.0	3.4	6.7
61 40	14.714	29.43	44.14	58.86	73.57	88.29	103.00	117.72	132.43	882.9	1765.7	2648.6	3531.5	4414.3
41	.706	.41	.12	.83	.53	.24	2.95	.65	.36	2.4	4.8	7.2	29.6	11.9
42	.699	.40	.10	.79	.49	.19	.89	.59	.29	1.9	3.8	5.7	7.7	9.6
43	.691	.38	.07	.76	.45	.14	.84	.53	.22	1.4	2.9	4.3	5.8	7.2
44	.683	.37	.05	.73	.41	.10	.78	.46	.15	1.0	1.9	2.9	3.8	4.8
61 45	14.675	29.35	44.02	58.70	73.38	88.05	102.73	117.40	132.07	880.5	1761.0	2641.5	3521.9	4402.4
46	.667	.33	4.00	.67	.34	8.00	.67	.33	2.00	80.0	60.0	40.0	20.0	400.0
47	.659	.32	3.98	.64	.30	7.95	.61	.27	1.93	79.5	59.1	38.6	18.1	397.7
48	.651	.30	.95	.60	.26	.91	.56	.21	.86	9.1	8.1	7.2	6.2	5.3
49	.643	.29	.93	.57	.22	.86	.51	.14	.79	8.6	7.2	5.7	4.3	2.9
61 50	14.635	29.27	43.91	58.54	73.18	87.81	102.45	117.08	131.72	878.1	1756.2	2634.3	3512.4	4390.5
51	.627	.25	.88	.51	.14	.76	.39	7.02	.65	7.6	5.2	2.9	10.5	38.1
52	.619	.24	.86	.48	.10	.72	.34	6.95	.58	7.2	4.3	1.5	8.6	5.8
53	.611	.22	.83	.44	.06	.67	.28	.89	.50	6.7	3.3	30.0	6.7	3.4
54	.603	.21	.81	.41	3.02	.62	.23	.83	.43	6.2	2.4	28.6	4.8	81.0
61 55	14.595	29.19	43.79	58.38	72.98	87.57	102.17	116.76	131.36	875.7	1751.4	2627.2	3502.9	4378.6
56	.587	.17	.76	.35	.94	.52	.11	.70	.29	5.2	50.5	5.7	501.0	6.2
57	.579	.16	.74	.32	.90	.48	.06	.64	.22	4.8	49.5	4.3	499.1	3.8
58	.572	.14	.72	.29	.86	.43	2.00	.57	.14	4.3	8.6	2.9	7.2	71.5
59	.564	.13	.69	.25	.82	.38	1.95	.51	.07	3.8	7.6	1.4	5.3	69.1
61 60	14.556	29.11	43.67	58.22	72.78	87.33	101.89	116.45	131.00	873.3	1746.7	2620.0	3493.4	4366.7

Lat.	Latitude 61° to 62°—Meridional arcs					Latitude 61°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 61°30'		Value of 1'	Continuous sums of minutes from latitude 61°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
61 00	30.953			1857.19			0 1	901.8	0.1
1	3	1	30.96	.20	1	1 857.2	0 2	1 803.7	0.5
2	3	2	61.91	.20	2	3 714.4	0 3	2 705.5	1.0
3	3	3	92.87	.21	3	5 571.6	0 4	3 607.3	1.8
4	4	4	123.82	.21	4	7 428.8			
61 05	30.954	5	154.78	1857.22	5	9 286.0	0 5	4 509.1	2.9
6	4	6	185.73	.22	6	11 143.2	0 6	5 411.0	4.1
7	4	7	216.69	.22	7	13 000.5	0 7	6 312.8	5.6
8	4	8	247.64	.23	8	14 857.7	0 8	7 214.6	7.3
9	4	9	278.60	.23	9	16 714.9	0 9	8 116.4	9.3
61 10	30.954	10	309.56	1857.24	10	18 572.2	0 10	9 018.3	11.5
11	4	1	340.51	.24	1	20 429.4	0 15	13 527.4	25.8
12	4	2	371.47	.25	2	22 286.6	0 20	18 036.5	45.9
13	4	3	402.42	.25	3	24 143.9	0 25	22 545.5	71.7
14	4	4	433.38	.26	4	26 001.1	0 30	27 054.5	103.2
61 15	30.954	15	464.33	1857.26	15	27 858.4	0 35	31 563.5	140.5
16	4	6	495.29	.27	6	29 715.7	0 40	36 072.5	183.5
17	5	7	526.24	.27	7	31 572.9	0 45	40 581.3	232.3
18	5	8	557.20	.28	8	33 430.2	0 50	45 090.1	286.8
19	5	9	588.15	.28	9	35 287.5	0 55	49 598.9	347.0
61 20	30.955	20	619.11	1857.29	20	37 144.8	1 00	54 107.5	413.0
21	5	1	650.07	.29	1	39 002.1	1 05	58 616.1	484.7
22	5	2	681.02	.29	2	40 859.3	1 10	63 124.5	562.1
23	5	3	711.98	.30	3	42 716.6	1 15	67 632.9	645.3
24	5	4	742.93	.30	4	44 573.9	1 20	72 141.2	734.2
61 25	30.955	25	773.89	1857.31	25	46 431.2	1 25	76 649.3	828.8
26	5	6	804.84	.31	6	48 288.6	1 30	81 157.3	929.2
27	5	7	835.80	.32	7	50 145.9	1 35	85 665.2	1 035.3
28	5	8	866.75	.32	8	52 003.2	1 40	90 172.9	1 147.1
29	5	9	897.71	.33	9	53 860.5	1 45	94 680.5	1 264.6
61 30	30.956	30	928.67	1857.33	30	55 717.8	1 50	99 188.0	1 388.0
31	6	1	959.62	.34	1	57 575.2	1 55	103 695.3	1 517.1
32	6	2	990.58	.34	2	59 432.5	2 00	108 202	1 652
33	6	3	1 021.53	.35	3	61 289.9	2 05	112 710	1 787
34	6	4	1 052.49	.35	4	63 147.2	2 10	117 218	1 922
61 35	30.956	35	1 083.44	1857.35	35	65 004.6	5 00	270 285	10 320
36	6	6	1 114.40	.36	6	66 861.9	6 00	324 204	14 857
37	6	7	1 145.35	.36	7	68 719.3	7 00	378 047	20 217
38	6	8	1 176.31	.37	8	70 576.7	8 00	431 802	26 399
39	6	9	1 207.27	.37	9	72 434.0	9 00	485 456	33 400
61 40	30.956	40	1 238.22	1857.38	40	74 291.4	10 00	538 997	41 219
41	6	1	1 269.18	.38	1	76 148.8	11 00	592 413	49 855
42	6	2	1 300.13	.39	2	78 006.2	12 00	645 690	59 305
43	7	3	1 331.09	.39	3	79 863.6	13 00	698 817	69 567
44	7	4	1 362.04	.40	4	81 721.0	14 00	751 781	80 639
61 45	30.957	45	1 393.00	1857.40	45	83 578.4	15 00	804 570	92 518
46	7	6	1 423.95	.41	6	85 435.8	16 00	857 172	105 201
47	7	7	1 454.91	.41	7	87 293.2	17 00	909 574	118 686
48	7	8	1 485.87	.41	8	89 150.6	18 00	961 764	132 969
49	7	9	1 516.82	.42	9	91 008.0	19 00	1 013 729	148 048
61 50	30.957	50	1 547.78	1857.42	50	92 865.4	20 00	1 065 459	163 917
51	7	1	1 578.73	.43	1	94 722.8	21 00	1 116 940	180 575
52	7	2	1 609.69	.43	2	96 580.3	22 00	1 168 161	198 016
53	7	3	1 640.64	.44	3	98 437.7	23 00	1 219 110	216 237
54	7	4	1 671.60	.44	4	100 295.2	24 00	1 269 775	235 234
61 55	30.957	55	1 702.55	1857.45	55	102 152.6	25 00	1 320 144	255 002
56	8	6	1 733.51	.45	6	104 010.0	26 00	1 370 205	275 537
57	8	7	1 764.46	.46	7	105 867.5	27 00	1 419 947	296 833
58	8	8	1 795.42	.46	8	107 725.0	28 00	1 469 358	318 886
59	8	9	1 826.38	.46	9	109 582.4	29 00	1 518 426	341 691
61 60	30.958	60	1 857.33	1857.47	60	111 439.9	30 00	1 567 141	365 242

Latitude 62° to 63°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
62 00	14.556	29.11	43.67	58.22	72.78	87.33	101.89	116.45	131.00	873.3	1746.7	2620.0	3493.4	4366.7
1	.548	.10	.64	.19	.74	.29	.83	.38	0.93	2.9	5.7	18.6	91.4	4.3
2	.540	.08	.62	.16	.70	.24	.78	.32	.86	2.4	4.8	7.2	89.5	61.9
3	.532	.06	.60	.13	.66	.19	.72	.25	.79	1.9	3.8	5.7	7.6	59.5
4	.524	.05	.57	.10	.62	.14	.67	.19	.72	1.4	2.9	4.3	5.7	7.1
62 05	14.516	29.03	43.55	58.06	72.58	87.10	101.61	116.13	130.65	871.0	1741.9	2612.9	3483.8	4354.8
6	.508	.02	.52	.03	.54	.05	.55	.06	.57	0.5	0.9	1.4	1.9	2.4
7	.500	9.00	.50	8.00	.50	7.00	.50	6.00	.50	70.0	40.0	10.0	80.0	50.0
8	.492	8.98	.48	7.97	.46	6.95	.44	5.94	.43	69.5	39.0	08.6	78.1	47.6
9	.484	.97	.45	.94	.42	.90	.39	.87	.35	9.0	8.1	7.1	6.2	5.2
62 10	14.476	28.95	43.43	57.90	72.38	86.86	101.33	115.81	130.28	868.6	1737.1	2605.7	3474.3	4342.8
11	.468	.94	.40	.87	.34	.81	.28	.74	.21	8.1	6.1	4.3	2.3	40.4
12	.460	.92	.38	.84	.30	.76	.22	.68	.14	7.6	5.2	2.8	70.4	38.0
13	.452	.90	.36	.81	.26	.71	.17	.62	.07	7.1	4.2	1.4	68.5	5.6
14	.444	.89	.33	.78	.22	.67	.11	.55	30.00	6.7	3.3	600.0	6.6	3.3
62 15	14.436	28.87	43.31	57.74	72.18	86.62	101.05	115.49	129.93	866.2	1732.3	2598.5	3464.7	4330.9
16	.428	.86	.29	.71	.14	.57	1.00	.43	.85	5.7	1.4	7.1	2.8	28.5
17	.420	.84	.26	.68	.10	.52	0.94	.36	.78	5.2	30.4	5.6	60.9	6.1
18	.412	.82	.24	.65	.06	.47	.89	.30	.71	4.7	29.5	4.2	59.0	3.7
19	.404	.81	.21	.62	2.02	.43	.83	.23	.64	4.3	8.5	2.8	7.0	21.3
62 20	14.396	28.79	43.19	57.59	71.98	86.38	100.78	115.17	129.57	863.8	1727.6	2591.3	3455.1	4318.9
21	.388	.78	.17	.55	.94	.33	.72	.11	.50	3.3	6.6	89.9	3.2	6.5
22	.380	.76	.14	.52	.90	.28	.67	5.04	.43	2.8	5.7	8.5	51.3	4.1
23	.372	.74	.12	.49	.86	.23	.61	4.98	.35	2.3	4.7	7.0	49.4	11.7
24	.364	.73	.09	.46	.82	.19	.56	.92	.28	1.9	3.8	5.6	7.5	09.3
62 25	14.356	28.71	43.07	57.43	71.78	86.14	100.50	114.85	129.21	861.4	1722.8	2584.2	3445.6	4306.9
26	.348	.70	.05	.39	.74	.09	.44	.79	.14	0.9	1.8	2.7	3.6	4.5
27	.340	.68	.02	.36	.70	.04	.39	.72	9.07	0.4	20.9	81.3	41.7	302.1
28	.333	.67	3.00	.33	.66	6.00	.33	.66	8.99	60.0	19.9	79.9	39.8	299.8
29	.325	.65	2.97	.30	.62	5.95	.28	.60	.92	59.5	9.0	8.4	7.9	7.4
62 30	14.317	28.63	42.95	57.27	71.58	85.90	100.22	114.53	128.85	859.0	1718.0	2577.0	3436.0	4295.0
31	.309	.62	.93	.23	.54	.85	.16	.47	.78	8.5	7.0	5.5	4.1	2.6
32	.301	.60	.90	.20	.50	.80	.11	.40	.71	8.0	6.1	4.1	2.1	90.2
33	.293	.59	.88	.17	.46	.76	.05	.34	.63	7.6	5.1	2.7	30.2	87.8
34	.285	.57	.85	.14	.42	.71	100.00	.28	.56	7.1	4.2	71.2	28.3	5.4
62 35	14.277	28.55	42.83	57.11	71.38	85.66	99.94	114.21	128.49	856.6	1713.2	2569.8	3426.4	4283.0
36	.269	.54	.81	.07	.34	.61	.88	.15	.42	6.1	2.2	8.3	4.5	80.6
37	.261	.52	.78	.04	.30	.56	.83	.08	.35	5.6	1.3	6.9	2.5	78.2
38	.253	.51	.76	7.01	.26	.52	.77	4.02	.27	5.2	10.3	5.5	20.6	5.8
39	.245	.49	.73	6.98	.22	.47	.72	3.96	.20	4.7	09.4	4.0	18.7	3.4
62 40	14.237	28.47	42.71	56.95	71.18	85.42	99.66	113.89	128.13	854.2	1708.4	2562.6	3416.8	4271.0
41	.229	.45	.69	.91	.14	.36	.60	.33	8.06	3.6	7.4	61.1	4.9	68.6
42	.221	.44	.66	.88	.10	.32	.55	.76	7.99	3.2	6.5	59.7	2.9	6.2
43	.213	.43	.64	.85	.06	.28	.49	.70	.91	2.8	5.5	8.3	11.0	3.8
44	.205	.41	.61	.82	1.02	.23	.44	.64	.84	2.3	4.6	6.8	09.1	61.4
62 45	14.197	28.39	42.59	56.79	70.98	85.18	99.38	113.57	127.77	851.8	1703.6	2555.4	3407.2	4259.0
46	.189	.38	.57	.75	.94	.13	.32	.51	.70	1.3	2.6	3.9	5.3	6.6
47	.181	.36	.54	.72	.90	.08	.27	.44	.63	0.8	1.7	2.5	3.3	4.2
48	.173	.35	.52	.69	.86	5.04	.21	.38	.55	50.4	700.7	51.1	401.4	51.8
49	.165	.33	.49	.66	.82	4.99	.16	.32	.48	49.9	699.8	49.6	399.5	49.4
62 50	14.157	28.31	42.47	56.63	70.78	84.94	99.10	113.25	127.41	849.4	1698.8	2548.2	3397.6	4247.0
51	.149	.30	.45	.59	.74	.89	9.04	.19	.34	8.9	7.8	6.7	5.6	4.6
52	.140	.28	.42	.56	.70	.84	8.99	.12	.27	8.4	6.9	5.3	3.7	42.1
53	.132	.26	.40	.53	.66	.79	.93	.06	.19	7.9	5.9	3.8	91.8	39.7
54	.124	.25	.37	.50	.62	.75	.87	3.00	.12	7.5	5.0	2.4	89.9	7.3
62 55	14.116	28.23	42.35	56.47	70.58	84.70	98.82	112.93	127.05	847.0	1694.0	2541.0	3387.9	4234.9
56	.108	.22	.33	.43	.54	.65	.76	.87	6.98	6.5	3.0	39.5	6.0	2.5
57	.100	.20	.30	.40	.50	.60	.70	.80	.91	6.0	2.1	8.1	4.1	30.1
58	.092	.18	.28	.37	.46	.55	.64	.74	.83	5.5	1.1	6.6	2.2	27.7
59	.084	.17	.25	.34	.42	.51	.59	.67	.76	5.1	90.2	5.2	80.2	5.3
62 60	14.076	28.15	42.23	56.31	70.38	84.46	98.53	112.61	126.69	844.6	1689.2	2533.7	3378.3	4222.9

Lat.	Latitude 62° to 63°—Meridional arcs					Latitude 62°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 62°30'		Value of 1'	Continuous sums of minutes from lati-62°00'	Longitude	X	Y	
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
62 00	30.958			1857.47			0 1	873.3	0.1
1	8	1	30.96	.47	1	857.5	2	1 746.7	0.4
2	8	2	61.92	.48	2	3 714.9	3	2 620.0	1.0
3	8	3	92.88	.48	3	5 572.4	4	3 493.4	1.8
4	8	4	123.84	.49	4	7 429.9			
62 05	30.958	5	154.80	1857.49	5	9 287.4	0 5	4 366.7	2.8
6	8	6	185.76	.50	6	11 144.9	6	5 240.0	4.0
7	8	7	216.72	.50	7	13 002.4	7	6 113.4	5.5
8	8	8	247.68	.51	8	14 859.9	8	6 986.7	7.2
9	9	9	278.64	.51	9	16 717.4	9	7 860.0	9.1
62 10	30.959	10	309.60	1857.52	10	18 574.9	0 10	8 733.4	11.2
11	9	1	340.56	.52	1	20 432.5	15	13 100.1	25.2
12	9	2	371.52	.52	2	22 290.0	20	17 466.7	44.9
13	9	3	402.48	.53	3	24 147.5	25	21 833.3	70.1
14	9	4	433.44	.53	4	26 005.0	30	26 199.9	100.9
62 15	30.959	15	464.40	1857.54	15	27 862.6	0 35	30 566.4	137.4
16	9	6	495.36	.54	6	29 720.1	40	34 932.9	179.5
17	9	7	526.32	.55	7	31 577.7	45	39 299.4	227.1
18	9	8	557.28	.55	8	33 435.2	50	43 665.7	280.4
19	9	9	588.24	.56	9	35 292.8	55	48 032.0	339.3
62 20	30.959	20	619.20	1857.56	20	37 150.3	1 00	52 398.3	403.8
21	9	1	650.16	.57	1	39 007.9	05	56 764.3	473.8
22	59	2	681.12	.57	2	40 865.5	10	61 130.4	549.5
23	60	3	712.08	.57	3	42 723.0	15	65 496.4	630.8
24	0	4	743.04	.58	4	44 580.6	20	69 862.2	717.7
62 25	30.960	25	774.00	1857.58	25	46 438.2	1 25	74 227.9	810.3
26	0	6	804.96	.59	6	48 295.8	30	78 593.5	908.4
27	0	7	835.92	.59	7	50 153.4	35	82 959.0	1 012.1
28	0	8	866.88	.60	8	52 011.0	40	87 324.3	1 121.5
29	0	9	897.84	.60	9	53 868.6	45	91 689.5	1 236.4
62 30	30.960	30	928.80	1857.61	30	55 726.2	1 50	96 054.5	1 357.0
31	0	1	959.76	.61	1	57 583.8	55	100 419.4	1 483.1
32	0	2	990.72	.61	2	59 441.4	2 00	104 784	1 615
33	0	3	1 021.68	.62	3	61 299.0	3 00	157 145	3 633
34	0	4	1 052.64	.62	4	63 156.6	4 00	209 469	6 458
62 35	30.960	35	1 083.60	1857.63	35	65 014.2	5 00	261 742	10 089
36	1	6	1 114.56	.63	6	66 871.9	6 00	313 954	14 525
37	1	7	1 145.52	.64	7	68 729.5	7 00	366 091	19 765
38	1	8	1 176.48	.64	8	70 587.1	8 00	418 142	25 807
39	1	9	1 207.44	.65	9	72 444.8	9 00	470 093	32 652
62 40	30.961	40	1 238.40	1857.65	40	74 302.4	10 00	521 932	40 296
41	1	1	1 269.36	.66	1	76 160.1	11 00	573 647	48 737
42	1	2	1 300.32	.66	2	78 017.7	12 00	625 226	57 975
43	1	3	1 331.28	.66	3	79 875.4	13 00	676 657	68 006
44	1	4	1 362.24	.67	4	81 733.1	14 00	727 927	78 829
62 45	30.961	45	1 393.20	1857.67	45	83 590.7	15 00	779 024	90 441
46	1	6	1 424.16	.68	6	85 448.4	16 00	829 936	102 838
47	1	7	1 455.12	.68	7	87 306.1	17 00	880 651	116 019
48	1	8	1 486.08	.69	8	89 163.8	18 00	931 157	129 980
49	2	9	1 517.04	.69	9	91 021.5	19 00	981 442	144 717
62 50	30.962	50	1 548.00	1857.70	50	92 879.2	20 00	1 031 494	160 227
51	2	1	1 578.96	.70	1	94 736.9	21 00	1 081 300	176 507
52	2	2	1 609.93	.70	2	96 594.6	22 00	1 130 850	193 552
53	2	3	1 640.89	.71	3	98 452.3	23 00	1 180 132	211 359
54	2	4	1 671.85	.71	4	100 310.1	24 00	1 229 133	229 923
62 55	30.962	55	1 702.81	1857.72	55	102 167.8	25 00	1 277 842	249 240
56	2	6	1 733.77	.72	6	104 025.5	26 00	1 326 248	269 306
57	2	7	1 764.73	.73	7	105 883.2	27 00	1 374 339	290 114
58	2	8	1 795.69	.73	8	107 741.0	28 00	1 422 103	311 662
59	2	9	1 826.65	.74	9	109 598.7	29 00	1 469 530	333 943
62 60	30.962	60	1 857.61	1857.74	60	111 456.4	30 00	1 516 608	356 952

Latitude 63° to 64°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
63 00	14.076	28.15	42.23	56.31	70.38	84.46	98.53	112.61	126.69	844.6	1689.2	2533.7	3378.3	4222.9
1	.068	.14	.21	.28	.34	.41	.47	.55	.62	4.1	8.2	12.3	16.4	20.5
2	.060	.12	.18	.24	.30	.36	.42	.48	.54	3.6	7.2	10.9	14.5	18.1
3	.052	.10	.16	.21	.26	.31	.36	.42	.47	3.1	6.3	9.4	12.6	15.7
4	.044	.09	.13	.18	.22	.27	.31	.35	.40	2.7	5.3	8.0	10.6	13.3
63 05	14.036	28.07	42.11	56.14	70.18	84.22	98.25	112.29	126.32	842.2	1684.4	2526.5	3368.7	4210.9
6	.028	.05	.08	.11	.14	.17	.19	.23	.25	1.7	3.4	5.0	6.8	8.4
7	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.4	3.6	4.8	6.0
8	.012	.02	.04	.05	.06	.07	.08	.10	.11	0.7	1.4	2.2	2.9	3.6
9	.004	8.01	2.01	6.02	70.02	4.02	8.03	2.03	6.04	40.2	80.5	20.7	61.0	201.2
63 10	13.996	27.99	41.99	55.98	69.98	83.98	97.97	111.97	125.96	839.8	1679.5	2519.3	3359.0	4198.8
11	.988	.97	.96	.95	.94	.93	.91	.91	.89	9.3	8.6	7.8	7.1	6.4
12	.980	.96	.94	.92	.90	.88	.86	.84	.82	8.8	7.6	6.4	5.2	4.0
13	.972	.94	.92	.89	.86	.83	.80	.78	.75	8.3	6.6	5.0	3.3	91.6
14	.964	.93	.89	.86	.82	.78	.75	.71	.68	7.8	5.7	3.5	51.3	89.2
63 15	13.956	27.91	41.87	55.82	69.78	83.73	97.69	111.65	125.60	837.3	1674.7	2512.0	3349.4	4186.7
16	.948	.89	.84	.79	.74	.69	.63	.58	.53	6.9	3.7	10.6	7.5	4.3
17	.940	.88	.82	.76	.70	.64	.58	.52	.46	6.4	2.8	9.1	5.5	81.9
18	.932	.86	.80	.73	.66	.59	.52	.45	.38	5.9	1.8	7.7	3.6	79.5
19	.924	.85	.77	.69	.62	.54	.47	.39	.31	5.4	70.8	6.3	41.7	7.1
63 20	13.916	27.83	41.75	55.66	69.58	83.49	97.41	111.32	125.24	834.9	1669.9	2504.8	3339.8	4174.7
21	.908	.81	.72	.63	.54	.45	.35	.26	.17	4.5	8.9	3.4	7.8	72.3
22	.900	.80	.70	.60	.50	.40	.30	.19	.10	4.0	8.0	1.9	5.9	69.9
23	.891	.78	.67	.57	.46	.35	.24	.13	5.02	3.5	7.0	500.4	3.9	7.4
24	.883	.77	.65	.53	.42	.30	.18	.07	4.95	3.0	6.0	499.0	2.0	5.0
63 25	13.875	27.75	41.63	55.50	69.38	83.25	97.13	111.00	124.88	832.5	1665.0	2497.6	3330.1	4162.6
26	.867	.73	.60	.47	.34	.20	.07	.94	.81	2.0	4.0	6.1	28.2	60.2
27	.859	.72	.58	.44	.30	.16	7.02	.87	.74	1.6	3.1	4.7	6.2	57.8
28	.851	.70	.55	.40	.26	.11	6.96	.81	.66	1.1	2.2	3.2	4.3	5.4
29	.843	.69	.53	.37	.22	.06	.91	.74	.59	0.6	1.2	1.7	2.3	2.9
63 30	13.835	27.67	41.51	55.34	69.18	83.01	96.85	110.68	124.52	830.1	1660.2	2490.3	3320.4	4150.5
31	.827	.65	.48	.31	.14	2.96	.79	.62	.45	29.6	59.2	88.9	18.5	48.1
32	.819	.64	.46	.28	.10	.91	.74	.55	.37	9.1	8.3	7.4	6.6	5.7
33	.811	.62	.43	.24	.06	.87	.68	.49	.30	8.7	7.3	6.0	4.6	3.3
34	.803	.61	.41	.21	9.02	.82	.62	.42	.23	8.2	6.3	4.5	2.7	40.8
63 35	13.795	27.59	41.38	55.18	68.97	82.77	96.56	110.35	124.15	827.7	1655.4	2483.0	3310.7	4138.4
36	.787	.57	.36	.15	.93	.72	.51	.30	.08	7.2	4.4	1.6	8.8	6.0
37	.779	.56	.34	.12	.89	.67	.45	.23	4.01	6.7	3.4	80.2	6.9	3.6
38	.771	.54	.31	.08	.85	.62	.39	.17	3.94	6.2	2.5	78.7	5.0	31.2
39	.762	.53	.29	.05	.81	.57	.34	.10	.86	5.7	1.5	7.2	3.0	28.7
63 40	13.754	27.51	41.26	55.02	68.77	82.53	96.28	110.04	123.79	825.3	1650.5	2475.8	3301.0	4126.3
41	.746	.49	.24	4.99	.73	.48	.22	9.97	.71	4.8	49.6	4.3	299.1	3.9
42	.738	.48	.21	.95	.69	.43	.17	.91	.64	4.3	8.6	2.9	7.2	21.5
43	.730	.46	.19	.92	.65	.38	.11	.84	.57	3.8	7.6	1.4	5.2	19.0
44	.722	.45	.17	.89	.61	.33	.06	.78	.50	3.3	6.6	70.0	3.3	6.6
63 45	13.714	27.43	41.14	54.86	68.57	82.28	96.00	109.71	123.43	822.8	1645.7	2468.5	3291.4	4114.2
46	.706	.41	.12	.82	.53	.24	5.94	.65	.35	2.4	4.7	7.1	89.4	11.8
47	.698	.40	.09	.79	.49	.19	.89	.58	.28	1.9	3.8	5.6	7.5	9.4
48	.690	.38	.07	.76	.45	.14	.83	.52	.21	1.4	2.8	4.1	5.5	6.9
49	.682	.36	.04	.73	.41	.09	.77	.45	.13	0.9	1.8	2.7	3.6	4.5
63 50	13.674	27.35	41.02	54.69	68.37	82.04	95.72	109.39	123.06	820.4	1640.8	2461.3	3281.7	4102.1
51	.666	.33	1.00	.66	.33	1.99	.66	.33	2.99	19.9	39.9	59.8	79.8	99.7
52	.657	.31	.97	.63	.29	.94	.60	.26	.92	9.4	8.9	8.3	7.8	7.2
53	.649	.30	.95	.60	.25	.90	.55	.20	.84	9.0	7.9	6.9	5.8	4.8
54	.641	.28	.92	.56	.21	.85	.49	.13	.77	8.5	7.0	5.4	3.9	92.4
63 55	13.633	27.27	40.90	54.53	68.16	81.80	95.43	109.06	122.70	818.0	1636.0	2453.9	3271.9	4089.9
56	.625	.25	.88	.50	.12	.75	.38	9.00	.62	7.5	5.0	2.5	70.0	7.5
57	.617	.23	.85	.47	.08	.70	.32	8.94	.55	7.0	4.0	51.1	68.1	5.1
58	.609	.22	.83	.44	.04	.66	.25	.87	.48	6.5	3.1	49.6	6.2	2.7
59	.601	.20	.80	.40	8.00	.61	.20	.81	.41	6.1	2.1	8.1	4.2	80.2
63 60	13.593	27.19	40.78	54.37	67.96	81.56	95.15	108.74	122.33	815.6	1631.1	2446.7	3262.2	4077.8

Lat.	Latitude 63° to 64°—Meridional arcs						Latitude 63°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 63°30'		Value of 1'		Continuous sums of minutes from latitude 63°00'		Longitude	X	Y
	Meters	''	Meters	Meters	Meters	Meters	°	'	Meters	Meters	
63 00	30.962			1857.74			0	1			
1	2	1	30.96	.74	1	857.7	0	1	844.6	0.1	
2	2	2	61.93	.75	2	3 715.5	0	2	1 689.2	0.4	
3	3	3	92.89	.75	3	5 573.2	0	3	2 533.7	1.0	
4	3	4	123.86	.76	4	7 431.0	0	4	3 378.3	1.7	
63 05	30.963			1857.76			0	5			
6	3	5	154.82	.77	5	9 288.8	0	5	4 222.9	2.7	
7	3	6	185.79	.77	6	11 146.5	0	6	5 067.5	3.9	
8	3	7	216.75	.77	7	13 004.3	0	7	5 912.1	5.4	
9	3	8	247.72	.78	8	14 862.1	0	8	6 756.6	7.0	
		9	278.68	.78	9	16 719.8	0	9	7 601.2	8.9	
63 10	30.963			1857.78			0	10			
11	3	10	309.65	.79	10	18 577.6	0	10	8 445.8	11.0	
12	3	11	340.61	.79	11	20 435.4	0	15	12 668.7	24.6	
13	3	12	371.57	.79	12	22 293.2	0	20	16 891.6	43.8	
14	3	13	402.54	.80	13	24 151.0	0	25	21 114.4	68.4	
		14	433.50	.80	14	26 008.8	0	30	25 337.2	98.5	
63 15	30.963			1857.81			0	35			
16	4	15	464.47	.81	15	27 866.6	0	35	29 559.9	134.1	
17	4	16	495.43	.82	16	29 724.4	0	40	33 782.6	175.1	
18	4	17	526.40	.82	17	31 582.2	0	45	38 005.3	221.6	
19	4	18	557.36	.82	18	33 440.0	0	50	42 227.9	273.6	
		19	588.33	.82	19	35 297.9	0	55	46 450.4	331.1	
63 20	30.964			1857.83			1	00			
21	4	20	619.29	.83	20	37 155.7	1	00	50 672.8	394.0	
22	4	1	650.26	.83	1	39 013.5	1	05	54 895.2	462.4	
23	4	2	681.22	.84	2	40 871.4	1	10	59 117.4	536.3	
24	4	3	712.18	.84	3	42 729.2	1	15	63 339.6	615.6	
		4	743.15	.85	4	44 587.0	1	20	67 561.6	700.4	
63 25	30.964			1857.85			1	25			
26	4	25	774.11	.86	25	46 444.9	1	25	71 783.6	790.7	
27	4	6	805.08	.86	6	48 302.7	1	30	76 005.4	886.5	
28	4	7	836.04	.86	7	50 160.6	1	35	80 227.1	987.7	
29	4	8	867.01	.86	8	52 018.5	1	40	84 448.6	1 094.4	
		9	897.98	.87	9	53 876.3	1	45	88 670.1	1 206.6	
63 30	30.965			1857.87			1	50			
31	5	30	928.94	.88	30	55 734.2	1	50	92 891.3	1 324.2	
32	5	1	959.90	.88	1	57 592.1	1	55	97 112.5	1 447.4	
33	5	2	990.87	.88	2	59 450.0	2	00	101 333	1 576	
34	5	3	1 021.83	.89	3	61 307.9	2	00	151 970	3 546	
		4	1 052.80	.89	4	63 165.7	3	00	202 569	6 302	
63 35	30.965			1857.90			5	00			
36	5	35	1 083.76	.90	35	65 023.6	5	00	253 119	9 846	
37	5	6	1 114.72	.90	6	66 881.5	6	00	303 608	14 175	
38	5	7	1 145.69	.90	7	68 739.4	7	00	354 024	19 288	
39	5	8	1 176.65	.91	8	70 597.3	8	00	404 354	25 185	
		9	1 207.62	.91	9	72 455.2	9	00	454 586	31 864	
63 40	30.965			1857.92			10	00			
41	5	40	1 238.58	.92	40	74 313.2	10	00	504 709	39 323	
42	5	1	1 269.55	.92	1	76 171.1	11	00	554 709	47 561	
43	6	2	1 300.51	.93	2	78 029.0	12	00	604 575	56 575	
44	6	3	1 331.48	.93	3	79 886.9	13	00	654 295	66 363	
		4	1 362.44	.94	4	81 744.9	14	00	703 857	76 924	
63 45	30.966			1857.94			15	00			
46	6	45	1 393.41	.94	45	83 602.8	15	00	753 249	88 254	
47	6	6	1 424.37	.94	6	85 460.7	16	00	802 458	100 350	
48	6	7	1 455.33	.95	7	87 318.7	17	00	851 473	113 211	
49	6	8	1 486.30	.95	8	89 176.6	18	00	900 283	126 832	
		9	1 517.26	.96	9	91 034.6	19	00	948 874	141 210	
63 50	30.966			1857.96			20	00			
51	6	50	1 548.23	.97	50	92 892.6	20	00	997 237	156 343	
52	6	1	1 579.19	.97	1	94 750.5	21	00	1 045 358	172 225	
53	6	2	1 610.16	.97	2	96 608.5	22	00	1 093 226	188 854	
54	6	3	1 641.12	.97	3	98 466.5	23	00	1 140 830	206 225	
		4	1 672.09	.98	4	100 324.4	24	00	1 188 158	224 335	
63 55	30.966			1857.98			25	00			
56	6	55	1 703.05	.99	55	102 182.4	25	00	1 235 199	243 178	
57	7	6	1 734.02	.99	6	104 040.4	26	00	1 281 941	262 750	
58	7	7	1 764.98	7.99	7	105 898.4	27	00	1 328 373	283 047	
59	7	8	1 795.94	8.00	8	107 756.4	28	00	1 374 483	304 064	
60	7	9	1 826.91	.00	9	109 614.4	29	00	1 420 262	325 795	
		60	1 857.87	1858.00	60	111 472.4	30	00	1 465 696	348 235	

Latitude 64° to 65°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
64 00	13.593	27.19	40.78	54.37	67.96	81.56	95.15	108.74	122.33	815.6	1631.1	2446.7	3262.2	4077.8
1	.585	.17	.75	.34	.92	.51	.09	.68	.26	5.1	30.1	5.2	60.3	5.4
2	.576	.15	.73	.31	.88	.46	5.03	.61	.19	4.6	29.2	3.8	58.4	2.9
3	.568	.14	.71	.27	.84	.41	4.98	.55	.11	4.1	8.2	2.3	6.4	70.5
4	.560	.12	.68	.24	.80	.36	.92	.48	2.04	3.6	7.3	40.9	4.5	68.1
64 05	13.552	27.10	40.66	54.21	67.76	81.31	94.87	108.42	121.97	813.1	1626.3	2439.4	3252.5	4065.7
6	.544	.09	.63	.18	.72	.26	.31	.35	.90	2.6	5.3	7.9	50.6	3.2
7	.536	.07	.61	.14	.68	.21	.75	.29	.82	2.1	4.3	6.5	48.6	60.8
8	.528	.06	.58	.11	.64	.17	.70	.22	.75	1.7	3.4	5.0	6.7	58.4
9	.520	.04	.56	.08	.60	.12	.64	.16	.68	1.2	2.4	3.6	4.7	5.9
64 10	13.512	27.02	40.54	54.05	67.56	81.07	94.58	108.09	121.60	810.7	1621.4	2432.1	3242.8	4053.5
11	.504	7.01	.51	4.01	.52	1.02	.53	8.03	.54	10.2	20.4	30.6	40.9	51.1
12	.495	6.99	.49	3.98	.48	0.97	.47	7.96	.46	09.7	19.4	29.2	38.9	48.6
13	.487	.97	.46	.95	.44	.92	.41	.90	.39	9.2	8.5	7.7	7.0	6.2
14	.479	.96	.44	.92	.40	.88	.35	.83	.31	8.8	7.5	6.3	5.0	3.8
64 15	13.471	26.94	40.41	53.88	67.35	80.83	94.30	107.77	121.24	808.3	1616.5	2424.8	3233.1	4041.3
16	.463	.93	.39	.85	.31	.78	.24	.70	.17	7.8	5.5	3.3	31.1	38.9
17	.455	.91	.37	.82	.27	.73	.18	.64	.09	7.3	4.6	1.9	29.2	6.5
18	.447	.89	.34	.79	.23	.68	.12	.57	1.02	6.8	3.6	20.4	7.2	4.0
19	.439	.88	.32	.75	.19	.63	.07	.51	0.95	6.3	2.7	19.0	5.3	31.6
64 20	13.431	26.86	40.29	53.72	67.15	80.58	94.01	107.45	120.88	805.8	1611.7	2417.5	3223.3	4029.2
21	.422	.84	.27	.69	.11	.53	3.96	.38	.80	5.3	10.7	6.0	21.4	6.7
22	.414	.83	.24	.66	.07	.49	.90	.31	.73	4.9	09.7	4.6	19.4	4.3
23	.406	.81	.22	.62	7.03	.44	.84	.25	.65	4.4	8.8	3.1	7.5	21.8
24	.398	.80	.19	.59	6.99	.39	.79	.18	.58	3.9	7.8	1.6	5.5	19.4
64 25	13.390	26.78	40.17	53.56	66.95	80.34	93.73	107.12	120.51	803.4	1606.8	2410.2	3213.6	4017.0
26	.382	.76	.15	.53	.91	.29	.67	7.05	.43	2.9	5.8	08.7	11.6	4.5
27	.374	.75	.12	.49	.87	.24	.62	6.99	.36	2.4	4.8	7.3	09.7	12.1
28	.366	.73	.10	.46	.83	.19	.56	.93	.29	1.9	3.9	5.8	7.7	09.7
29	.357	.71	.07	.43	.79	.14	.50	.86	.22	1.4	2.9	4.3	5.8	7.2
64 30	13.349	26.70	40.05	53.40	66.75	80.10	93.45	106.79	120.14	801.0	1601.9	2402.9	3203.8	4004.8
31	.341	.68	.02	.36	.71	.05	.39	.73	20.07	0.5	600.9	401.4	201.9	4002.3
32	.333	.67	40.00	.33	.67	80.00	.33	.66	19.99	800.0	599.9	399.9	199.9	3999.9
33	.325	.65	39.98	.30	.63	79.95	.28	.60	.92	799.5	9.0	8.5	8.0	7.5
34	.317	.63	.95	.27	.58	.90	.21	.53	.85	9.0	8.0	7.0	6.0	5.0
64 35	13.309	26.62	39.93	53.23	66.54	79.85	93.16	106.47	119.78	798.5	1597.0	2395.5	3194.1	3992.6
36	.300	.60	.90	.20	.50	.80	.10	.40	.70	8.0	6.0	4.1	2.1	90.1
37	.292	.58	.88	.17	.46	.75	3.05	.34	.63	7.5	5.1	2.6	90.2	87.7
38	.284	.57	.85	.14	.42	.71	2.99	.27	.56	7.1	4.1	91.2	88.2	5.3
39	.276	.55	.83	.10	.38	.66	.93	.21	.48	6.6	3.1	89.7	6.2	2.8
64 40	13.268	26.54	39.80	53.07	66.34	79.61	92.88	106.14	119.41	796.1	1592.2	2388.2	3184.3	3980.4
41	.260	.52	.78	.04	.30	.56	.82	.08	.34	5.6	1.2	6.8	2.3	77.9
42	.252	.50	.75	3.01	.26	.51	.76	6.01	.26	5.1	90.2	5.3	80.4	5.5
43	.243	.49	.73	2.97	.22	.46	.70	5.95	.19	4.6	89.3	3.8	78.4	3.0
44	.235	.47	.71	.94	.18	.41	.65	.88	.12	4.1	8.3	2.4	6.5	70.6
64 45	13.227	26.45	39.68	52.91	66.14	79.36	92.59	105.82	119.04	793.6	1587.3	2380.9	3174.5	3968.2
46	.219	.44	.66	.88	.09	.31	.53	.75	8.97	3.1	6.3	79.4	2.6	5.7
47	.211	.42	.63	.84	.05	.27	.48	.69	.90	2.7	5.3	8.0	70.6	3.3
48	.203	.41	.61	.81	6.01	.22	.42	.62	.82	2.2	4.4	6.5	68.7	60.8
49	.195	.39	.58	.78	5.97	.17	.36	.56	.75	1.7	3.4	5.0	6.7	58.4
64 50	13.186	26.37	39.56	52.75	65.93	79.12	92.30	105.49	118.68	791.2	1582.4	2373.6	3164.7	3955.9
51	.178	.36	.54	.71	.89	.07	.25	.43	.61	0.7	1.4	2.1	2.8	3.5
52	.170	.34	.51	.68	.85	9.02	.19	.36	.53	90.2	80.4	70.6	60.8	51.0
53	.162	.32	.49	.65	.81	8.97	.13	.30	.46	89.7	79.5	69.2	58.9	48.6
54	.154	.31	.46	.62	.77	.92	.08	.23	.38	9.2	8.5	7.7	6.9	6.1
64 55	13.146	26.29	39.44	52.58	65.73	78.87	92.02	105.17	118.31	788.7	1577.5	2366.2	3155.0	3943.7
56	.137	.27	.41	.55	.69	.82	1.96	.10	.24	8.2	6.5	4.7	3.0	41.2
57	.129	.26	.39	.52	.65	.78	.91	5.03	.16	7.8	5.5	3.3	51.0	38.8
58	.121	.24	.36	.48	.60	.73	.85	4.97	.09	7.3	4.6	1.8	49.1	6.3
59	.113	.23	.34	.45	.56	.68	.79	.90	8.02	6.8	3.6	60.8	7.1	3.9
64 60	13.105	26.21	39.31	52.42	65.52	78.63	91.73	104.84	117.94	786.3	1572.6	2358.9	3145.2	3931.5

TERRESTRIAL ARCS

Lat.	Latitude 64° to 65°—Meridional arcs					Latitude 64°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 64°30'		Value of 1'	Continuous sums of minutes from latitude 64°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
64 00	30.967			1858.00			0 1	815.6	0.1
1	7	1	30.97	.01	1	1 858.0	0 2	1 631.1	0.4
2	7	2	61.94	.01	2	3 716.0	3	2 446.7	1.0
3	7	3	92.91	.02	3	5 574.0	4	3 262.2	1.7
4	7	4	123.88	.02	4	7 432.1			
64 05	30.967	5	154.84	1858.03	5	9 290.1	0 5	4 077.8	2.7
6	7	6	185.81	.03	6	11 148.1	6	4 893.4	3.8
7	7	7	216.78	.04	7	13 006.1	7	5 708.9	5.2
8	7	8	247.75	.04	8	14 864.2	8	6 524.5	6.8
9	7	9	278.72	.04	9	16 722.2	9	7 340.1	8.6
64 10	30.967	10	309.69	1858.05	10	18 580.3	0 10	8 155.6	10.7
11	8	1	340.66	.05	1	20 438.3	15	12 233.4	24.0
12	8	2	371.63	.06	2	22 296.4	20	16 311.2	42.6
13	8	3	402.60	.06	3	24 154.4	25	20 388.9	66.6
14	8	4	433.56	.07	4	26 012.5	30	24 466.6	95.9
64 15	30.968	15	464.53	1858.07	15	27 870.6	0 35	28 544.3	130.6
16	8	6	495.50	.07	6	29 728.6	40	32 621.9	170.6
17	8	7	526.47	.08	7	31 586.7	45	36 699.5	215.9
18	8	8	557.44	.08	8	33 444.8	50	40 777.0	266.5
19	8	9	588.41	.09	9	35 302.9	55	44 854.4	322.5
64 20	30.968	20	619.38	1858.09	20	37 161.0	1 00	48 931.7	383.8
21	8	1	650.35	.10	1	39 019.1	05	53 009.0	450.4
22	8	2	681.32	.10	2	40 877.2	10	57 086.2	522.4
23	8	3	712.28	.10	3	42 735.3	15	61 163.3	599.7
24	8	4	743.25	.11	4	44 593.4	20	65 240.2	682.3
64 25	30.699	25	774.22	1858.11	25	46 451.5	1 25	69 317.1	770.2
26	9	6	805.19	.12	6	48 309.6	30	73 393.9	863.5
27	9	7	836.16	.12	7	50 167.7	35	77 470.5	962.1
28	9	8	867.13	.13	8	52 025.8	40	81 546.9	1 066.1
29	9	9	898.10	.13	9	53 884.0	45	85 623.3	1 175.3
64 30	30.969	30	929.07	1858.13	30	55 742.1	1 50	89 699.5	1 289.9
31	9	1	960.04	.14	1	57 600.2	55	93 775.5	1 409.8
32	9	2	991.01	.14	2	59 458.4	2 00	97 851	1 535
33	9	3	1 021.97	.15	3	61 316.5	3 00	146 747	3 454
34	9	4	1 052.94	.15	4	63 174.7	4 00	195 607	6 139
64 35	30.969	35	1 083.91	1858.16	35	65 032.8	5 00	244 418	9 590
36	9	6	1 114.88	.16	6	66 891.0	6 00	293 169	13 807
37	9	7	1 145.85	.16	7	68 749.1	7 00	341 848	18 788
38	69	8	1 176.82	.17	8	70 607.3	8 00	390 443	24 532
39	70	9	1 207.79	.17	9	72 465.5	9 00	438 942	31 037
64 40	30.970	40	1 238.76	1858.18	40	74 323.6	10 00	487 333	38 302
41	0	1	1 269.73	.18	1	76 181.8	11 00	535 604	46 326
42	0	2	1 300.69	.19	2	78 040.0	12 00	583 743	55 106
43	0	3	1 331.66	.19	3	79 898.2	13 00	631 739	64 639
44	0	4	1 362.63	.19	4	81 756.4	14 00	679 579	74 925
64 45	30.970	45	1 393.60	1858.20	45	83 614.6	15 00	727 252	85 959
46	0	6	1 424.57	.20	6	85 472.8	16 00	774 745	97 741
47	0	7	1 455.54	.21	7	87 331.0	17 00	822 049	110 265
48	0	8	1 486.51	.21	8	89 189.2	18 00	869 150	123 530
49	0	9	1 517.48	.22	9	91 047.4	19 00	916 037	137 533
64 50	30.970	50	1 548.45	1858.22	50	92 905.6	20 00	962 698	152 269
51	0	1	1 579.41	.22	1	94 763.9	21 00	1 009 123	167 735
52	0	2	1 610.38	.23	2	96 622.1	22 00	1 055 300	183 927
53	1	3	1 641.35	.23	3	98 480.3	23 00	1 101 216	200 842
54	1	4	1 672.32	.24	4	100 338.6	24 00	1 146 862	218 475
64 55	30.971	55	1 703.29	1858.24	55	102 196.8	25 00	1 192 226	236 822
56	1	6	1 734.26	.25	6	104 055.0	26 00	1 237 296	255 879
57	1	7	1 765.23	.25	7	105 913.3	27 00	1 282 062	275 639
58	1	8	1 796.20	.25	8	107 771.5	28 00	1 326 512	296 100
59	1	9	1 827.17	.26	9	109 629.8	29 00	1 370 635	317 256
64 60	30.971	60	1 858.13	1858.26	60	111 488.1	30 00	1 414 422	339 100

Latitude 65° to 66°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
65 00	13.105	26.21	39.31	52.42	65.52	78.63	91.73	104.84	117.94	786.3	1572.6	2358.9	3145.2	3931.5
1	.097	.19	.29	.39	.48	.58	.68	.77	.87	5.8	1.6	7.4	3.2	29.0
2	.089	.18	.27	.35	.44	.53	.62	.71	.80	5.3	70.6	5.9	41.2	6.6
3	.080	.16	.24	.32	.40	.48	.56	.64	.72	4.8	69.7	4.5	39.3	4.1
4	.072	.14	.22	.29	.36	.43	.50	.58	.65	4.3	8.7	3.0	7.3	21.6
65 05	13.064	26.13	39.19	52.26	65.32	78.39	91.45	104.51	117.57	783.8	1567.7	2351.5	3135.4	3919.2
6	.056	.11	.17	.22	.28	.33	.39	.45	.50	3.3	6.7	50.0	3.4	6.7
7	.048	.10	.14	.19	.24	.29	.33	.38	.43	2.9	5.7	48.6	31.4	4.3
8	.039	.08	.12	.16	.20	.24	.28	.31	.35	2.4	4.8	7.1	29.5	11.8
9	.031	.06	.09	.13	.16	.19	.22	.25	.28	1.9	3.8	5.6	7.5	9.4
65 10	13.023	26.05	39.07	52.09	65.12	78.14	91.16	104.18	117.21	781.4	1562.8	2344.2	3125.6	3906.9
11	.015	.03	.05	.06	.07	.09	.10	.12	.13	0.9	1.8	2.7	3.6	4.5
12	.007	.01	.02	2.03	5.03	8.04	1.05	4.05	7.06	80.4	60.8	41.2	21.6	902.0
13	2.999	6.00	9.00	1.99	4.99	7.99	.99	3.99	6.99	79.9	59.9	39.7	19.7	899.6
14	.990	5.98	8.97	.96	.95	.94	.93	.92	.91	9.4	8.9	8.3	7.7	7.1
65 15	12.982	25.96	38.95	51.93	64.91	77.89	90.88	103.86	116.84	778.9	1557.9	2336.8	3115.7	3894.7
16	.974	.95	.92	.90	.87	.84	.82	.79	.77	8.4	6.9	5.3	3.8	92.2
17	.966	.93	.90	.86	.83	.80	.76	.73	.69	8.0	5.9	3.9	11.8	89.8
18	.958	.92	.87	.83	.79	.75	.70	.66	.62	7.5	5.0	2.4	9.8	7.3
19	.950	.90	.85	.80	.75	.70	.65	.60	.55	7.0	4.0	30.9	7.9	4.9
65 20	12.941	25.88	38.82	51.77	64.71	77.65	90.59	103.53	116.47	776.5	1553.0	2329.4	3105.9	3882.4
21	.933	.87	.80	.73	.67	.60	.53	.46	.40	6.0	2.0	8.0	4.0	79.9
22	.925	.85	.77	.70	.63	.55	.48	.40	.32	5.5	1.0	6.5	2.0	7.5
23	.917	.83	.75	.67	.58	.50	.42	.33	.25	5.0	50.0	5.0	100.0	5.0
24	.909	.82	.73	.63	.54	.45	.36	.27	.18	4.5	49.0	3.5	98.1	2.6
65 25	12.900	25.80	38.70	51.60	64.50	77.40	90.30	103.21	116.10	774.0	1548.0	2322.1	3096.1	3870.1
26	.892	.78	.68	.57	.46	.35	.24	.14	6.03	3.5	7.0	20.6	4.1	67.6
27	.884	.77	.65	.54	.42	.30	.19	.07	5.96	3.0	6.0	19.1	2.2	5.2
28	.876	.75	.63	.50	.38	.25	.13	3.01	.88	2.5	5.1	7.6	90.2	2.7
29	.868	.74	.60	.47	.34	.21	.07	2.94	.81	2.1	4.1	6.2	88.2	60.3
65 30	12.859	25.72	38.58	51.44	64.30	77.16	90.02	102.88	115.73	771.6	1543.1	2314.7	3086.3	3857.8
31	.851	.70	.55	.41	.26	.11	89.96	.81	.66	1.1	2.1	3.2	4.3	5.4
32	.843	.69	.53	.37	.22	.06	.90	.75	.58	0.6	1.1	1.7	2.3	2.9
33	.835	.67	.50	.34	.17	7.01	.84	.68	.51	70.1	40.2	10.3	80.3	50.4
34	.827	.65	.48	.31	.13	6.96	.79	.61	.44	69.6	39.2	8.8	78.4	48.0
65 35	12.818	25.64	38.46	51.27	64.09	76.91	89.73	102.55	115.36	769.1	1538.2	2307.3	3076.4	3845.5
36	.810	.62	.43	.24	.05	.86	.67	.48	.29	8.6	7.2	5.8	4.4	3.1
37	.802	.60	.41	.21	4.01	.81	.61	.42	.22	8.1	6.2	4.4	2.5	40.6
38	.794	.59	.38	.17	3.97	.76	.56	.35	.14	7.6	5.3	2.9	70.5	38.1
39	.786	.57	.36	.14	.93	.71	.50	.29	.07	7.1	4.3	301.4	68.5	5.7
65 40	12.777	25.55	38.33	51.11	63.89	76.66	89.44	102.22	115.00	766.6	1533.3	2299.9	3066.6	3833.2
41	.769	.54	.31	.08	.85	.61	.38	.15	4.92	6.1	2.3	8.4	4.6	30.7
42	.761	.52	.28	.04	.81	.57	.33	.09	.85	5.7	1.3	7.0	2.6	28.3
43	.753	.51	.26	1.01	.76	.52	.27	2.02	.77	5.2	30.4	5.5	60.7	5.8
44	.744	.49	.23	0.98	.72	.47	.21	1.95	.70	4.7	29.4	4.0	58.7	3.3
65 45	12.736	25.47	38.21	50.95	63.68	76.42	89.15	101.89	114.63	764.2	1528.4	2292.5	3056.7	3820.9
46	.728	.46	.18	.91	.64	.37	.10	.82	.55	3.7	7.4	91.0	4.7	18.4
47	.720	.44	.16	.88	.60	.32	9.04	.76	.48	3.2	6.4	89.6	2.8	6.0
48	.712	.42	.14	.85	.56	.27	8.98	.69	.41	2.7	5.4	8.1	50.8	3.5
49	.703	.41	.11	.81	.52	.22	.92	.63	.33	2.2	4.4	6.6	48.8	11.0
65 50	12.695	25.39	38.09	50.78	63.48	76.17	88.87	101.56	114.26	761.7	1523.4	2285.1	3046.9	3808.6
51	.687	.37	.06	.75	.44	.12	.81	.50	.18	1.2	2.4	3.7	4.9	6.1
52	.679	.36	.04	.71	.39	.07	.75	.43	.11	0.7	1.4	2.2	2.9	3.6
53	.671	.34	8.01	.68	.35	6.02	.69	.37	4.04	60.2	20.5	80.7	40.9	801.2
54	.662	.32	7.99	.65	.31	5.97	.64	.30	3.96	59.7	19.5	79.2	39.0	798.7
65 55	12.654	25.31	37.96	50.62	63.27	75.92	88.58	101.23	113.89	759.2	1518.5	2277.7	3037.0	3796.2
56	.646	.29	.94	.58	.23	.88	.52	.17	.81	8.8	7.5	6.3	5.0	3.8
57	.638	.28	.91	.55	.19	.83	.46	.10	.74	8.3	6.5	4.8	3.0	91.3
58	.629	.26	.89	.52	.15	.78	.41	1.03	.66	7.8	5.6	3.3	31.1	88.8
59	.621	.24	.86	.48	.10	.73	.35	0.97	.59	7.3	4.6	1.8	29.1	6.3
65 60	12.613	25.23	37.84	50.45	63.06	75.68	88.29	100.90	113.52	756.8	1513.6	2270.3	3027.1	3783.9

Lat.	Latitude 65° to 66°—Meridional arcs					Latitude 65°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 65°30'		Value of 1'	Continuous sums of minutes from latitude 65°00'	Longitude	X	Y	
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
65 00	30.971			1858.26			0 1	786.3	0.1
1	1	1	30.97	.27	1	1 858.3	2	1 572.6	0.4
2	1	2	61.95	.27	2	3 716.5	3	2 358.9	0.9
3	1	3	92.92	.27	3	5 574.8	4	3 145.2	1.7
4	1	4	123.89	.28	4	7 433.1			
65 05	30.971	5	154.87	1858.28	5	9 291.4	0 5	3 931.5	2.6
6	1	6	185.84	.29	6	11 149.7	6	4 717.8	3.7
7	2	7	216.81	.29	7	13 007.9	7	5 504.0	5.1
8	2	8	247.79	.30	8	14 866.2	8	6 290.3	6.6
9	2	9	278.76	.30	9	16 724.5	9	7 076.5	8.4
65 10	30.972	10	309.73	1858.30	10	18 582.8	0 10	7 862.9	10.4
11	2	1	340.70	.31	1	20 441.1	15	11 794.3	23.3
12	2	2	371.68	.31	2	22 299.5	20	15 725.8	41.5
13	2	3	402.65	.32	3	24 157.8	25	19 657.1	64.8
14	2	4	433.62	.32	4	26 016.1	30	23 588.5	93.3
65 15	30.972	15	464.60	1858.33	15	27 874.4	0 35	27 519.8	127.0
16	2	6	495.57	.33	6	29 732.7	40	31 451.1	165.8
17	2	7	526.54	.33	7	31 591.1	45	35 382.3	209.9
18	2	8	557.52	.34	8	33 449.4	50	39 313.4	259.1
19	2	9	588.49	.34	9	35 307.7	55	43 244.5	313.5
65 20	30.972	20	619.46	1858.35	20	37 166.1	1 00	47 175.5	373.1
21	2	1	650.44	.35	1	39 024.4	05	51 106.5	437.9
22	3	2	681.41	.35	2	40 882.8	10	55 037.3	507.8
23	3	3	712.38	.36	3	42 741.2	15	58 968.0	583.0
24	3	4	743.36	.36	4	44 599.5	20	62 898.7	663.3
65 25	30.973	25	774.33	1858.37	25	46 457.9	1 25	66 829.2	748.8
26	3	6	805.30	.37	6	48 316.2	30	70 759.6	839.5
27	3	7	836.27	.38	7	50 174.6	35	74 689.9	935.4
28	3	8	867.25	.38	8	52 033.0	40	78 620.1	1 036.4
29	3	9	898.22	.38	9	53 891.4	45	82 550.1	1 142.6
65 30	30.973	30	929.19	1858.39	30	55 749.8	1 50	86 479.9	1 254.0
31	3	1	960.17	.39	1	57 608.2	55	90 409.7	1 370.6
32	3	2	991.14	.40	2	59 466.5	2 00	94 339	1 492
33	3	3	1 022.11	.40	3	61 324.9	3 00	141 479	3 358
34	3	4	1 053.09	.40	4	63 183.3	4 00	188 584	5 968
65 35	30.973	35	1 084.06	1858.41	35	65 041.8	5 00	235 642	9 323
36	4	6	1 115.03	.41	6	66 900.2	6 00	282 640	13 422
37	4	7	1 146.01	.42	7	68 758.6	7 00	329 568	18 265
38	4	8	1 176.98	.42	8	70 617.0	8 00	376 413	23 848
39	4	9	1 207.95	.43	9	72 475.4	9 00	423 165	30 172
65 40	30.974	40	1 238.93	1858.43	40	74 333.9	10 00	469 810	37 235
41	4	1	1 269.90	.43	1	76 192.3	11 00	516 333	45 035
42	4	2	1 300.87	.44	2	78 050.7	12 00	562 736	53 569
43	4	3	1 331.84	.44	3	79 909.2	13 00	608 994	62 837
44	4	4	1 362.82	.45	4	81 767.6	14 00	655 100	72 835
65 45	30.974	45	1 393.79	1858.45	45	83 626.1	15 00	701 041	83 561
46	4	6	1 424.76	.45	6	85 484.5	16 00	746 807	95 012
47	4	7	1 455.74	.46	7	87 343.0	17 00	792 387	107 186
48	4	8	1 486.71	.46	8	89 201.4	18 00	837 768	120 079
49	4	9	1 517.68	.47	9	91 059.9	19 00	882 939	133 688
65 50	30.975	50	1 548.66	1858.47	50	92 918.4	20 00	927 889	148 011
51	5	1	1 579.63	.47	1	94 776.8	21 00	972 608	163 042
52	5	2	1 610.60	.48	2	96 635.3	22 00	1 017 082	178 779
53	5	3	1 641.58	.48	3	98 493.8	23 00	1 061 303	195 217
54	5	4	1 672.55	.49	4	100 352.3	24 00	1 105 258	212 353
65 55	30.975	55	1 703.52	1858.49	55	102 210.8	25 00	1 148 936	230 182
56	5	6	1 734.50	.50	6	104 069.3	26 00	1 192 327	248 699
57	5	7	1 765.47	.50	7	105 927.8	27 00	1 235 420	267 901
58	5	8	1 796.44	.50	8	107 786.3	28 00	1 278 203	287 782
59	5	9	1 827.41	.51	9	109 644.8	29 00	1 320 667	308 337
65 60	30.975	60	1 858.39	1858.51	60	111 503.3	30 00	1 362 800	329 560

Latitude 66° to 67°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
66 00	12.613	25.23	37.84	50.45	63.06	75.68	88.29	100.90	113.52	756.8	1513.6	2270.3	3027.1	3783.9
1	.605	.21	.81	.42	3.02	.63	.23	.84	.44	6.3	2.6	68.8	5.1	81.4
2	.596	.19	.79	.39	2.98	.58	.17	.77	.37	5.8	1.6	7.4	3.2	78.9
3	.588	.18	.77	.35	.94	.53	.12	.71	.29	5.3	10.6	5.9	21.2	6.5
4	.580	.16	.74	.32	.90	.48	.06	.64	.22	4.8	09.6	4.4	19.2	4.0
66 05	12.572	25.14	37.72	50.29	62.86	75.43	88.00	100.57	113.15	754.3	1508.6	2262.9	3017.2	3771.5
6	.564	.13	.69	.25	.82	.38	7.95	.51	.07	3.8	7.6	1.4	5.2	69.1
7	.555	.11	.67	.22	.78	.33	.89	.44	3.00	3.3	6.6	60.0	3.3	6.6
8	.547	.09	.64	.19	.73	.28	.83	.38	2.92	2.8	5.7	58.5	11.3	4.1
9	.539	.08	.62	.15	.69	.23	.77	.31	.85	2.3	4.7	7.0	09.3	61.6
66 10	12.531	25.06	37.59	50.12	62.65	75.18	87.71	100.25	112.78	751.8	1503.7	2255.5	3007.3	3759.2
11	.522	.04	.57	.09	.61	.13	.66	.18	.70	1.3	2.7	4.0	5.4	6.7
12	.514	.03	.54	.06	.57	.08	.60	.11	.63	0.8	1.7	2.5	3.4	4.2
13	.506	.01	.52	50.02	.53	5.04	.54	100.05	.55	50.4	500.7	51.1	3001.4	51.8
14	.498	5.00	.49	49.99	.49	4.99	.48	99.98	.43	49.9	499.7	49.6	2999.4	49.3
66 15	12.489	24.98	37.47	49.96	62.45	74.94	87.43	99.91	112.40	749.4	1498.7	2248.1	2997.4	3746.8
16	.481	.96	.44	.92	.40	.89	.37	.85	.33	8.9	7.7	6.6	5.5	4.3
17	.473	.95	.42	.89	.36	.84	.31	.78	.26	8.4	6.7	5.1	3.5	41.9
18	.465	.93	.39	.86	.32	.79	.25	.72	.18	7.9	5.8	3.6	91.5	39.4
19	.456	.91	.37	.83	.28	.74	.19	.65	.11	7.4	4.8	2.1	89.5	6.9
66 20	12.448	24.90	37.34	49.79	62.24	74.69	87.14	99.58	112.03	746.9	1493.8	2240.7	2987.5	3734.4
21	.440	.88	.32	.76	.20	.64	.08	.52	1.96	6.4	2.8	39.2	5.6	32.0
22	.432	.86	.29	.73	.16	.59	7.02	.45	.89	5.9	1.8	7.7	3.6	29.5
23	.423	.85	.27	.69	.12	.54	6.96	.39	.81	5.4	90.8	6.2	81.6	7.0
24	.415	.83	.24	.66	.08	.49	.91	.32	.73	4.9	89.8	4.7	79.6	4.5
66 25	12.407	24.81	37.22	49.63	62.03	74.44	86.85	99.25	111.66	744.4	1488.8	2233.2	2977.6	3722.0
26	.399	.80	.20	.59	1.99	.39	.79	.18	.59	3.9	7.8	1.7	5.7	19.6
27	.390	.78	.17	.56	.95	.34	.73	.12	.51	3.4	6.8	30.3	3.7	7.1
28	.382	.76	.15	.53	.91	.29	.67	9.05	.44	2.9	5.9	28.8	71.7	4.6
29	.374	.75	.12	.49	.87	.24	.62	8.99	.36	2.4	4.9	7.3	69.7	12.1
66 30	12.366	24.73	37.10	49.46	61.83	74.19	86.56	98.93	111.29	741.9	1483.9	2225.8	2967.7	3709.7
31	.357	.71	.07	.43	.79	.14	.50	.86	.22	1.4	2.9	4.3	5.7	7.2
32	.349	.70	.05	.40	.75	.09	.44	.79	.14	0.9	1.9	2.8	3.8	4.7
33	.341	.68	.02	.36	.70	4.04	.38	.73	1.07	40.4	80.9	21.3	61.8	702.2
34	.332	.66	7.00	.33	.66	3.99	.33	.66	0.99	39.9	79.9	19.8	59.8	699.7
66 35	12.324	24.65	36.97	49.30	61.62	73.95	86.27	98.59	110.91	739.5	1478.9	2218.4	2957.8	3697.3
36	.316	.63	.95	.26	.58	.90	.21	.53	.84	9.0	7.9	6.9	5.8	4.8
37	.308	.62	.92	.23	.54	.85	.15	.46	.77	8.5	6.9	5.4	3.8	92.3
38	.299	.60	.90	.20	.50	.80	.10	.39	.69	8.0	5.9	3.9	51.9	89.8
39	.291	.58	.87	.16	.45	.75	6.04	.33	.62	7.5	4.9	2.4	49.9	7.3
66 40	12.283	24.57	36.85	49.13	61.41	73.70	85.98	98.26	110.55	737.0	1473.9	2210.9	2947.9	3684.9
41	.275	.55	.82	.10	.37	.65	.92	.20	.47	6.5	2.9	09.4	5.9	82.4
42	.266	.53	.80	.07	.33	.60	.86	.13	.40	6.0	1.9	7.9	3.9	79.9
43	.258	.52	.77	.03	.29	.55	.81	.06	.32	5.5	1.0	6.4	41.9	7.4
44	.250	.50	.75	9.00	.25	.50	.75	8.00	.25	5.0	70.0	4.9	39.9	4.9
66 45	12.241	24.48	36.72	48.97	61.21	73.45	85.69	97.93	110.17	734.5	1469.0	2203.5	2937.9	3672.4
46	.233	.47	.70	.93	.17	.40	.63	.87	.10	4.0	8.0	2.0	6.0	70.0
47	.225	.45	.68	.90	.12	.35	.57	.80	10.03	3.5	7.0	200.5	4.0	67.5
48	.217	.44	.65	.87	.09	.30	.52	.74	09.96	3.0	6.0	199.0	2.0	5.0
49	.208	.42	.63	.83	.04	.25	.46	.67	.88	2.5	5.0	7.5	30.0	2.5
66 50	12.200	24.40	36.60	48.80	61.00	73.20	85.40	97.60	109.80	732.0	1464.0	2196.0	2928.0	3660.0
51	.192	.38	.58	.77	0.96	.15	.34	.53	.73	1.5	3.0	4.5	6.0	57.5
52	.183	.37	.55	.73	.92	.10	.28	.47	.65	1.0	2.0	3.0	4.0	5.0
53	.175	.35	.53	.70	.88	.05	.23	.40	.58	0.5	1.0	1.5	2.0	2.6
54	.167	.33	.50	.67	.84	3.00	.17	.34	.50	30.0	60.0	90.0	20.1	50.1
66 55	12.159	24.32	36.48	48.63	60.79	72.95	85.11	97.27	109.44	729.5	1459.0	2188.5	2918.1	3647.6
56	.150	.30	.45	.60	.75	.90	5.05	.20	.35	9.0	8.0	7.1	6.1	5.1
57	.142	.28	.43	.57	.71	.85	4.99	.14	.28	8.5	7.0	5.6	4.1	2.6
58	.134	.27	.40	.53	.67	.80	.94	.07	.20	8.0	6.1	4.1	2.1	40.1
59	.125	.25	.38	.50	.63	.75	.88	7.00	.13	7.5	5.1	2.6	10.1	37.6
66 60	12.117	24.23	36.35	48.47	60.59	72.70	84.82	96.94	109.05	727.0	1454.0	2181.1	2908.1	3635.1

Lat.	Latitude 66° to 67°—Meridional arcs					Latitude 66°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 66°30'		Value of 1'	Continuous sums of minutes from latitude 66°00'		Longitude	X	Y
	<i>Meters</i>	''	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
66 00	30.975			1858.51			0 1	756.8	0.1
1	5	1	30.98	.52	1	1 858.5	0 2	1 513.6	0.4
2	5	2	61.95	.52	2	3 717.0	0 3	2 270.3	0.9
3	5	3	92.93	.52	3	5 575.6	0 4	3 027.1	1.6
4	5	4	123.91	.53	4	7 434.1			
66 05	30.976	5	154.89	1858.53	5	9 292.6	0 5	3 783.9	2.5
6	6	6	185.86	.54	6	11 151.1	0 6	4 540.7	3.6
7	6	7	216.84	.54	7	13 009.7	0 7	5 297.5	4.9
8	6	8	247.82	.54	8	14 868.2	0 8	6 054.2	6.4
9	6	9	278.80	.55	9	16 726.8	0 9	6 811.0	8.1
66 10	30.976	10	309.77	1858.55	10	18 585.3	0 10	7 567.8	10.1
11	6	1	340.75	.56	1	20 443.9	0 15	11 351.7	22.6
12	6	2	371.73	.56	2	22 302.4	0 20	15 135.5	40.2
13	6	3	402.70	.56	3	24 161.0	0 25	18 919.3	62.8
14	6	4	433.68	.57	4	26 019.6	0 30	22 703.1	90.5
66 15	30.976	15	464.66	1858.57	15	27 878.2	0 35	26 486.8	123.2
16	6	6	495.64	.58	6	29 736.7	0 40	30 270.5	160.9
17	6	7	526.61	.58	7	31 595.3	0 45	34 054.2	203.6
18	6	8	557.59	.59	8	33 453.9	0 50	37 837.8	251.4
19	6	9	588.57	.59	9	35 312.5	0 55	41 621.3	304.2
66 20	30.977	20	619.54	1858.59	20	37 171.1	1 00	45 404.8	362.0
21	7	1	650.52	.60	1	39 029.7	1 05	49 188.1	424.8
22	7	2	681.50	.60	2	40 888.3	1 10	52 971.4	492.7
23	7	3	712.48	.61	3	42 746.9	1 15	56 754.5	565.6
24	7	4	743.45	.61	4	44 605.5	1 20	60 537.6	643.5
66 25	30.977	25	774.43	1858.61	25	46 464.1	1 25	64 320.6	726.5
26	7	6	805.41	.62	6	48 322.7	1 30	68 103.5	814.4
27	7	7	836.39	.62	7	50 181.3	1 35	71 886.2	907.4
28	7	8	867.36	.63	8	52 040.0	1 40	75 668.8	1 005.4
29	7	9	898.34	.63	9	53 898.6	1 45	79 451.3	1 108.5
66 30	30.977	30	929.32	1858.63	30	55 757.2	1 50	83 233.7	1 216.6
31	7	1	960.29	.64	1	57 615.8	1 55	87 015.8	1 329.7
32	7	2	991.27	.64	2	59 474.5	2 00	90 798	1 448
33	7	3	1 022.25	.65	3	61 333.1	2 05	94 580.1	1 571.4
34	8	4	1 053.23	.65	4	63 191.8	2 10	98 361.2	1 699.4
66 35	30.978	35	1 084.20	1858.65	35	65 050.4	2 15	102 141.3	1 832.4
36	8	6	1 115.18	.66	6	66 909.1	2 20	105 922.4	1 969.4
37	8	7	1 146.16	.66	7	68 767.7	2 25	109 703.5	2 111.4
38	8	8	1 177.13	.67	8	70 626.4	2 30	113 484.6	2 258.4
39	8	9	1 208.11	.67	9	72 485.1	2 35	117 265.7	2 410.4
66 40	30.978	40	1 239.09	1858.67	40	74 343.8	2 40	121 046.8	2 567.4
41	8	1	1 270.07	.68	1	76 202.4	2 45	124 827.9	2 729.4
42	8	2	1 301.04	.68	2	78 061.1	2 50	128 609.0	2 896.4
43	8	3	1 332.02	.69	3	79 919.8	2 55	132 390.1	3 068.4
44	8	4	1 363.00	.69	4	81 778.5	3 00	136 171.2	3 245.4
66 45	30.978	45	1 393.98	1858.69	45	83 637.2	3 05	140 952.3	3 427.4
46	8	6	1 424.95	.70	6	85 495.9	3 10	144 733.4	3 614.4
47	8	7	1 455.93	.70	7	87 354.6	3 15	148 514.5	3 806.4
48	8	8	1 486.91	.71	8	89 213.3	3 20	152 295.6	4 003.4
49	9	9	1 517.88	.71	9	91 072.0	3 25	156 076.7	4 205.4
66 50	30.979	50	1 548.86	1858.71	50	92 930.7	3 30	159 857.8	4 412.4
51	9	1	1 579.84	.72	1	94 789.4	3 35	163 638.9	4 624.4
52	9	2	1 610.82	.72	2	96 648.1	3 40	167 419.0	4 841.4
53	9	3	1 641.79	.73	3	98 506.9	3 45	171 200.1	5 063.4
54	9	4	1 672.77	.73	4	100 365.6	3 50	174 981.2	5 290.4
66 55	30.979	55	1 703.75	1858.73	55	102 224.3	3 55	178 762.3	5 522.4
56	9	6	1 734.73	.74	6	104 083.0	4 00	182 543.4	5 759.4
57	9	7	1 765.70	.74	7	105 941.8	4 05	186 324.5	5 996.4
58	9	8	1 796.68	.75	8	107 800.5	4 10	190 105.6	6 243.4
59	9	9	1 827.66	.75	9	109 659.3	4 15	193 886.7	6 495.4
66 60	30.979	60	1 858.63	1858.75	60	111 518.0	4 20	197 667.8	6 752.4

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 67° to 68°—Arcs of the parallel in meters															
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'	
67 00	12.117	24.23	36.35	48.47	60.59	72.70	84.82	96.94	109.05	727.0	1454.0	2181.1	2908.1	3635.1	
1	.109	.22	.33	.44	.55	.65	.76	.87	8.98	6.5	3.1	79.6	6.1	2.7	
2	.101	.20	.30	.40	.50	.60	.70	.81	.91	6.0	2.1	8.1	4.1	30.2	
3	.092	.18	.28	.37	.46	.55	.65	.74	.83	5.5	1.1	6.6	2.1	27.7	
4	.084	.17	.25	.34	.42	.50	.59	.67	.76	5.0	50.1	5.1	900.1	5.2	
67 05	12.076	24.15	36.23	48.30	60.38	72.45	84.53	96.61	108.68	724.5	1449.1	2173.6	2898.2	3622.7	
6	.067	.13	.20	.27	.34	.40	.47	.54	.61	4.0	8.1	2.1	6.2	20.2	
7	.059	.12	.18	.24	.30	.35	.41	.47	.53	3.5	7.1	70.6	4.2	17.7	
8	.051	.10	.15	.20	.25	.30	.35	.41	.46	3.0	6.1	69.1	2.2	5.2	
9	.042	.08	.13	.17	.21	.25	.30	.34	.38	2.5	5.1	7.6	90.2	2.7	
67 10	12.034	24.07	36.10	48.14	60.17	72.20	84.24	96.27	108.31	722.0	1444.1	2166.1	2888.2	3610.2	
11	.026	.05	.08	.10	.13	.15	.18	.21	.23	1.5	3.1	4.6	6.2	07.7	
12	.018	.04	.05	.07	.09	.11	.12	.14	.16	1.1	2.1	3.2	4.2	5.3	
13	.009	.02	.03	.04	.05	.06	.07	.07	.08	0.6	1.1	1.7	2.2	2.8	
14	2.001	4.00	6.00	8.00	60.01	2.01	4.01	6.01	8.01	20.1	40.1	60.2	80.2	3600.3	
67 15	11.993	23.99	35.98	47.97	59.96	71.96	83.95	95.94	107.93	719.6	1439.1	2158.7	2878.2	3597.8	
16	.984	.97	.95	.94	.92	.91	.89	.87	.86	9.1	8.1	7.2	6.2	5.3	
17	.976	.95	.93	.90	.88	.86	.83	.81	.78	8.6	7.1	5.7	4.2	2.8	
18	.968	.94	.90	.87	.84	.81	.77	.74	.71	8.1	6.1	4.2	2.2	90.3	
19	.959	.92	.88	.84	.80	.76	.72	.68	.64	7.6	5.1	2.7	70.2	87.8	
67 20	11.951	23.90	35.85	47.80	59.76	71.71	83.66	95.61	107.56	717.1	1434.1	2151.2	2868.3	3585.3	
21	.943	.89	.83	.77	.72	.66	.60	.54	.48	6.6	3.1	49.7	6.3	2.8	
22	.934	.87	.80	.74	.67	.61	.54	.48	.41	6.1	2.1	8.2	4.3	80.3	
23	.926	.85	.78	.70	.63	.56	.49	.41	.33	5.6	1.1	6.7	2.3	77.8	
24	.918	.84	.75	.67	.59	.51	.42	.34	.26	5.1	30.1	5.2	60.3	5.3	
67 25	11.909	23.82	35.73	47.64	59.55	71.46	83.37	95.28	107.18	714.6	1429.1	2143.7	2858.3	3572.8	
26	.901	.80	.70	.60	.51	.41	.31	.21	.11	4.1	8.1	2.2	6.3	70.3	
27	.893	.79	.68	.57	.46	.36	.25	.14	7.03	3.6	7.1	40.7	4.3	67.8	
28	.884	.77	.65	.54	.42	.31	.19	.07	6.96	3.1	6.1	39.2	2.3	5.3	
29	.876	.75	.63	.50	.38	.26	.13	5.01	.88	2.6	5.1	7.7	50.3	2.8	
67 30	11.868	23.74	35.60	47.47	59.34	71.21	83.07	94.94	106.81	712.1	1424.1	2136.2	2848.3	3560.3	
31	.859	.72	.58	.44	.30	.16	3.02	.88	.73	1.6	3.1	4.7	6.3	57.8	
32	.851	.70	.55	.40	.26	.11	2.96	.81	.66	1.1	2.1	3.2	4.3	5.3	
33	.843	.69	.53	.37	.21	.06	.90	.74	.58	0.6	1.1	1.7	2.3	2.8	
34	.834	.67	.50	.34	.17	1.01	.84	.68	.51	10.1	20.1	30.2	40.3	50.3	
67 35	11.826	23.65	35.48	47.30	59.13	70.96	82.78	94.61	106.43	709.6	1419.1	2128.7	2838.3	3547.8	
36	.818	.64	.45	.27	.09	.91	.72	.54	.36	9.1	8.1	7.2	6.3	5.3	
37	.809	.62	.43	.24	.05	.86	.66	.48	.28	8.6	7.1	5.7	4.3	2.8	
38	.801	.60	.40	.20	9.00	.81	.61	.41	.21	8.1	6.1	4.2	2.3	40.3	
39	.793	.59	.38	.17	8.96	.76	.55	.34	.13	7.6	5.1	2.7	30.3	37.8	
67 40	11.784	23.57	35.35	47.14	58.92	70.71	82.49	94.28	106.06	707.1	1414.1	2121.2	2828.3	3535.3	
41	.776	.55	.33	.10	.88	.66	.43	.21	5.98	6.6	3.1	19.7	6.3	2.8	
42	.768	.54	.30	.07	.84	.61	.37	.14	.91	6.1	2.1	8.2	4.3	30.3	
43	.759	.52	.28	.04	.80	.56	.32	.08	.83	5.6	1.1	6.7	2.3	27.8	
44	.751	.50	.25	7.00	.76	.51	.26	4.01	.76	5.1	10.1	5.2	20.3	5.3	
67 45	11.743	23.49	35.23	46.97	58.71	70.46	82.20	93.94	105.68	704.6	1409.1	2113.7	2818.3	3522.8	
46	.734	.47	.20	.94	.67	.41	.14	.88	.61	4.1	8.1	2.2	6.3	20.3	
47	.726	.45	.18	.90	.63	.36	.08	.81	.53	3.6	7.1	10.7	4.3	17.8	
48	.718	.44	.15	.87	.59	.31	2.02	.74	.46	3.1	6.1	09.2	2.3	5.3	
49	.709	.42	.13	.84	.55	.26	1.97	.68	.38	2.6	5.1	7.7	10.3	2.8	
67 50	11.701	23.40	35.10	46.80	58.51	70.21	81.91	93.61	105.31	702.1	1404.1	2106.2	2808.3	3510.3	
51	.693	.39	.08	.77	.46	.16	.85	.54	.23	1.6	3.1	4.7	6.3	07.8	
52	.684	.37	.05	.74	.42	.11	.79	.47	.16	1.1	2.1	3.2	4.3	5.3	
53	.676	.35	.03	.70	.38	.06	.73	.41	.08	0.6	1.1	1.7	2.2	2.8	
54	.668	.34	5.00	.67	.34	70.01	.67	.34	5.01	700.1	400.1	100.2	800.2	500.3	
67 55	11.659	23.32	34.98	46.64	58.30	69.96	81.62	93.28	104.93	699.6	1399.1	2098.7	2798.2	3497.8	
56	.651	.30	.95	.60	.26	.91	.56	.21	.86	9.1	8.1	7.2	6.2	5.3	
57	.643	.29	.93	.57	.21	.86	.50	.14	.78	8.6	7.1	5.7	4.2	2.8	
58	.634	.27	.90	.54	.17	.81	.44	.07	.71	8.1	6.1	4.2	2.2	90.3	
59	.626	.26	.88	.50	.13	.76	.38	3.01	.64	7.6	5.1	2.7	90.2	87.8	
67 60	11.618	23.24	34.85	46.47	58.09	69.71	81.32	92.94	104.56	697.1	1394.1	2091.2	2788.2	3485.3	

Lat.	Latitude 67° to 68°—Meridional arcs						Latitude 67°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 67°30'		Value of 1'	Continuous sums of minutes from latitude 67°00'		Longitude	X	Y
	Meters	''	Meters	Meters	'	Meters	° '	Meters	Meters
67 00	30.979			1858.75			0 1	727.1	0.1
1	9	1	30.98	.76	1	858.8	2	1 454.1	0.4
2	9	2	61.96	.76	2	3 717.5	3	2 181.1	0.9
3	79	3	92.94	.77	3	5 576.3	4	2 908.1	1.6
4	80	4	123.92	.77	4	7 435.0			
67 05	30.980			1858.77			0 5	3 635.1	2.4
6	0	6	154.91	.78	6	11 152.6	6	4 362.2	3.5
7	0	7	185.89	.78	7	13 011.4	7	5 089.2	4.8
8	0	8	216.87	.79	8	14 870.2	8	5 816.2	6.2
9	0	9	247.85	.79	9	16 728.9	9	6 543.3	7.9
67 10	30.980			1858.79			0 10	7 270.3	9.7
11	0	1	309.81	.80	1	18 587.7	15	10 905.4	21.9
12	0	2	340.79	.80	2	20 446.5	20	14 540.5	38.9
13	0	3	371.77	.81	3	22 305.3	25	18 175.6	60.8
14	0	4	402.76	.81	4	24 164.1	30	21 810.6	87.6
67 15	30.980			1858.81			0 35	25 445.6	119.2
16	0	6	464.72	.82	6	27 881.8	40	29 080.6	155.7
17	0	7	495.70	.82	7	29 740.6	45	32 715.5	197.1
18	0	8	526.68	.83	8	31 599.4	50	36 350.4	243.3
19	0	9	557.66	.83	9	33 458.2	55	39 985.2	294.4
67 20	30.981			1858.83			1 00	43 619.9	350.4
21	1	1	619.62	.84	1	37 175.9	05	47 254.5	411.2
22	1	2	650.61	.84	2	39 034.7	10	50 889.1	476.9
23	1	3	681.59	.84	3	40 893.6	15	54 523.5	547.5
24	1	4	712.57	.85	4	42 752.4	20	58 157.9	622.9
67 25	30.981			1858.85			1 25	61 792.1	703.2
26	1	6	774.53	.86	6	46 470.1	30	65 426.3	788.4
27	1	7	805.51	.86	7	48 329.0	35	69 060.3	878.4
28	1	8	836.49	.86	8	50 187.8	40	72 694.2	973.3
29	1	9	867.47	.87	9	52 046.7	45	76 328.0	1 073.0
67 30	30.981			1858.87			1 50	79 961.6	1 177.4
31	1	1	929.44	.88	1	55 764.4	55	83 595.1	1 287.1
32	1	2	960.42	.88	2	57 623.3	00	87 228	1 401
33	1	3	991.40	.88	3	59 482.2	05	90 863	1 515
34	1	4	1 022.38	.89	4	61 341.0	10	94 497	1 629
67 35	30.982			1858.89			5 00	217 874	8 756
36	2	6	1 053.36	.90	6	65 058.8	05	261 325	12 605
37	2	7	1 084.34	.90	7	66 917.7	10	304 709	17 152
38	2	8	1 115.32	.90	8	68 776.6	15	348 014	22 395
39	2	9	1 146.30	.91	9	70 635.5	20	391 229	28 334
67 40	30.982			1858.91			10 00	434 343	34 966
41	2	1	1 177.29	.92	1	74 353.3	05	477 345	42 289
42	2	2	1 208.27	.92	2	76 212.2	10	520 224	50 303
43	2	3	1 239.25	.92	3	78 071.2	15	562 969	59 004
44	2	4	1 270.23	.93	4	79 930.1	20	605 568	68 391
67 45	30.982			1858.93			15 00	648 011	78 461
46	2	6	1 302.19	.93	6	81 789.0	05	690 287	89 212
47	2	7	1 332.19	.94	7	83 647.9	10	732 384	100 640
48	2	8	1 363.17	.94	8	85 506.9	15	774 293	112 744
49	2	9	1 394.15	.95	9	87 365.8	20	816 002	125 519
67 50	30.982			1858.95			20 00	857 500	138 962
51	3	1	1 425.14	.95	1	89 224.7	05	898 776	153 070
52	3	2	1 456.12	.96	2	91 083.7	10	939 821	167 840
53	3	3	1 487.10	.96	3	92 942.6	15	980 623	183 267
54	3	4	1 518.08	.97	4	94 801.6	20	1 021 173	199 348
67 55	30.983			1858.97			25 00	1 061 458	216 078
56	3	6	1 549.06	.97	6	96 660.5	05	1 101 470	233 453
57	3	7	1 580.04	.98	7	98 519.5	10	1 141 197	251 468
58	3	8	1 611.02	.98	8	100 378.4	15	1 180 629	270 120
59	3	9	1 642.00	.98	9	102 237.4	20	1 219 757	289 402
67 60	30.983			1858.99			30 00	1 258 571	309 311
		60	1 672.99	.99	60	104 096.4			

Latitude 68° to 69°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
68 00	11.618	23.24	34.85	46.47	58.09	69.71	81.32	92.94	104.56	697.1	1394.1	2091.2	2788.2	3485.3
1	.609	.22	.83	.44	.05	.66	.26	.87	.48	6.6	3.1	89.7	6.2	2.8
2	.601	.20	.80	.40	8.01	.61	.21	.81	.41	6.1	2.1	8.2	4.2	80.3
3	.592	.18	.78	.37	7.96	.55	.15	.74	.33	5.5	1.1	6.6	2.2	77.7
4	.584	.17	.75	.34	.92	.50	.09	.67	.26	5.0	90.1	5.1	80.2	5.2
68 05	11.576	23.15	34.73	46.30	57.88	69.45	81.03	92.61	104.18	694.5	1389.1	2083.6	2778.2	3472.7
6	.567	.13	.70	.27	.84	.40	0.97	.54	.11	4.0	8.1	2.1	6.2	70.2
7	.559	.12	.68	.24	.80	.35	.91	.47	4.03	3.5	7.1	80.6	4.2	67.7
8	.551	.10	.65	.20	.75	.30	.85	.41	3.96	3.0	6.1	79.1	2.2	5.2
9	.542	.08	.63	.17	.71	.25	.80	.34	.88	2.5	5.1	7.6	70.2	2.7
68 10	11.534	23.07	34.60	46.14	57.67	69.20	80.74	92.27	103.81	692.0	1384.1	2076.1	2768.2	3460.2
11	.526	.05	.58	.10	.63	.15	.68	.21	.73	1.5	3.1	4.6	6.1	57.7
12	.517	.03	.55	.07	.59	.10	.62	.14	.66	1.0	2.1	3.1	4.1	5.2
13	.509	.02	.53	.04	.54	.05	.56	.07	.58	0.5	1.1	1.6	2.1	2.7
14	.500	3.00	.50	6.00	.50	9.00	.50	2.00	.50	90.0	80.1	70.1	60.1	50.1
68 15	11.492	22.98	34.48	45.97	57.46	68.95	80.44	91.94	103.43	689.5	1379.1	2068.6	2758.1	3447.6
16	.484	.97	.45	.93	.42	.90	.39	.87	.35	9.0	8.1	7.1	6.1	5.1
17	.475	.95	.43	.90	.38	.85	.33	.80	.28	8.5	7.1	5.6	4.1	2.6
18	.467	.93	.40	.87	.33	.80	.27	.74	.20	8.0	6.0	4.1	2.1	40.1
19	.459	.92	.38	.83	.29	.75	.21	.67	.13	7.5	5.0	2.6	50.1	37.6
68 20	11.450	22.90	34.35	45.80	57.25	68.70	80.15	91.60	103.05	687.0	1374.0	2061.0	2748.1	3435.1
21	.442	.88	.33	.77	.21	.65	.09	.54	2.98	6.5	3.0	59.5	6.0	2.6
22	.433	.87	.30	.73	.17	.60	80.03	.47	.90	6.0	2.0	8.0	4.0	30.0
23	.425	.85	.28	.70	.12	.55	79.97	.40	.83	5.5	1.0	6.5	2.0	27.5
24	.417	.83	.25	.67	.08	.50	.92	.33	.75	5.0	70.0	5.0	40.0	5.0
68 25	11.408	22.82	34.23	45.63	57.04	68.45	79.86	91.27	102.68	684.5	1369.0	2053.5	2738.0	3422.5
26	.400	.80	.20	.60	7.00	.40	.80	.20	.60	4.0	8.0	2.0	6.0	20.0
27	.392	.78	.18	.57	6.96	.35	.74	.13	.53	3.5	7.0	50.5	4.0	17.5
28	.383	.77	.15	.53	.92	.30	.69	.07	.45	3.0	6.0	49.0	2.0	5.0
29	.375	.75	.12	.50	.87	.25	.62	1.00	.37	2.5	5.0	7.5	30.0	12.4
68 30	11.366	22.73	34.10	45.47	56.83	68.20	79.56	90.93	102.30	682.0	1364.0	2046.0	2727.9	3409.9
31	.358	.72	.07	.44	.79	.15	.51	.86	.22	1.5	3.0	4.4	5.9	7.4
32	.350	.70	.05	.40	.75	.10	.45	.80	.15	1.0	2.0	2.9	3.9	4.9
33	.341	.68	.02	.37	.71	.05	.39	.73	.07	0.5	60.9	41.4	21.9	402.4
34	.333	.67	4.00	.33	.66	8.00	.33	.66	2.00	80.0	59.9	39.9	19.9	399.9
68 35	11.324	22.65	33.97	45.30	56.62	67.95	79.27	90.59	101.92	679.5	1358.9	2038.4	2717.9	3397.3
36	.316	.63	.95	.26	.58	.90	.21	.53	.84	9.0	7.9	6.9	5.9	4.8
37	.308	.62	.92	.23	.54	.85	.15	.46	.77	8.5	6.9	5.4	3.8	92.3
38	.299	.60	.90	.20	.50	.80	.10	.39	.69	8.0	5.9	3.9	11.8	89.8
39	.291	.58	.87	.16	.45	.75	9.04	.33	.62	7.5	4.9	2.4	09.8	7.3
68 40	11.282	22.57	33.85	45.13	56.41	67.70	78.98	90.26	101.54	677.0	1353.9	2030.9	2707.8	3384.8
41	.274	.55	.82	.10	.37	.64	.92	.19	.47	6.4	2.9	29.3	5.8	82.2
42	.266	.53	.80	.06	.33	.59	.86	.13	.39	5.9	1.9	7.8	3.8	79.7
43	.257	.51	.77	.03	.29	.54	.80	90.06	.32	5.4	50.9	6.3	701.8	7.2
44	.249	.50	.75	5.00	.24	.49	.74	89.99	.24	4.9	49.9	4.8	699.7	4.7
68 45	11.241	22.48	33.72	44.96	56.20	67.44	78.68	89.93	101.17	674.4	1348.9	2023.3	2697.7	3372.2
46	.232	.46	.70	.93	.16	.39	.62	.86	.09	3.9	7.9	1.8	5.7	69.6
47	.224	.45	.67	.89	.12	.34	.57	.79	1.02	3.4	6.9	20.3	3.7	7.1
48	.215	.43	.65	.86	.07	.29	.51	.72	0.94	2.9	5.8	18.8	91.7	4.6
49	.207	.42	.62	.82	6.03	.24	.45	.66	.87	2.4	4.8	7.2	89.7	62.1
68 50	11.199	22.40	33.60	44.79	55.99	67.19	78.39	89.59	100.79	671.9	1343.8	2015.7	2687.6	3359.6
51	.190	.38	.57	.76	.95	.14	.33	.52	.71	1.4	2.8	4.2	5.6	7.0
52	.182	.36	.55	.73	.91	.09	.27	.45	.64	0.9	1.8	2.7	3.6	4.5
53	.173	.35	.52	.69	.87	7.04	.21	.39	.56	70.4	40.8	11.2	81.6	52.0
54	.165	.33	.50	.66	.82	6.99	.15	.32	.49	69.9	39.8	09.7	79.6	49.5
68 55	11.156	22.31	33.47	44.63	55.78	66.94	78.09	89.25	100.41	669.4	1338.8	2008.2	2677.6	3346.9
56	.148	.30	.44	.59	.74	.89	8.04	.18	.33	8.9	7.8	6.7	5.5	4.4
57	.140	.28	.42	.56	.70	.84	7.98	.12	.26	8.4	6.8	5.1	3.5	41.9
58	.131	.26	.39	.53	.66	.79	.92	9.05	.18	7.9	5.7	3.6	71.5	39.4
59	.123	.25	.37	.49	.61	.74	.86	8.98	.11	7.4	4.7	2.1	69.5	6.9
68 60	11.114	22.23	33.34	44.46	55.57	66.69	77.80	88.92	100.03	666.9	1333.7	2000.6	2667.5	3334.3

Lat.	Latitude 68° to 69°—Meridional arcs						Latitude 68°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 68°30'		Value of 1'	Continuous sums of minutes from latitude 68°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
68 00	30.983			1858.99			0 1	697.1	0.1
1	3	1	30.99	8.99	1	1 859.0	2	1 394.1	0.4
2	3	2	61.97	9.00	2	3 718.0	3	2 091.1	0.8
3	3	3	92.96	.00	3	5 577.0	4	2 788.2	1.5
4	3	4	123.94	.00	4	7 436.0			
68 05	30.983	5	154.93	1859.01	5	9 295.0	0 5	3 485.2	2.3
6	4	6	185.91	.01	6	11 154.0	6	4 182.3	3.4
7	4	7	216.90	.02	7	13 013.0	7	4 879.4	4.6
8	4	8	247.88	.02	8	14 872.0	8	5 576.4	6.0
9	4	9	278.87	.02	9	16 731.1	9	6 273.5	7.6
68 10	30.984	10	309.85	1859.03	10	18 590.1	0 10	6 970.5	9.4
11	4	1	340.84	.03	1	20 449.1	15	10 455.8	21.1
12	4	2	371.82	.03	2	22 308.1	20	13 941.0	37.6
13	4	3	402.81	.04	3	24 167.2	25	17 426.3	58.7
14	4	4	433.79	.04	4	26 026.2	30	20 911.4	84.6
68 15	30.984	15	464.78	1859.05	15	27 885.3	0 35	24 396.6	115.1
16	4	6	495.76	.05	6	29 744.3	40	27 881.7	150.4
17	4	7	526.75	.05	7	31 603.4	45	31 366.7	190.3
18	4	8	557.73	.06	8	33 462.4	50	34 851.7	235.0
19	4	9	588.72	.06	9	35 321.5	55	38 336.6	284.3
68 20	30.984	20	619.70	1859.06	20	37 180.5	1 00	41 821.5	338.4
21	4	1	650.69	.07	1	39 039.6	05	45 306.3	397.1
22	5	2	681.67	.07	2	40 898.7	10	48 791.0	460.6
23	5	3	712.66	.08	3	42 757.8	15	52 275.6	528.7
24	5	4	743.64	.08	4	44 616.8	20	55 760.1	601.6
68 25	30.985	25	774.63	1859.08	25	46 475.9	1 25	59 244.5	679.1
26	5	6	805.61	.09	6	48 335.0	30	62 728.8	761.4
27	5	7	836.60	.09	7	50 194.1	35	66 213.0	848.3
28	5	8	867.58	.10	8	52 053.2	40	69 697.1	940.0
29	5	9	898.57	.10	9	53 912.3	45	73 181.0	1 036.3
68 30	30.985	30	929.55	1859.10	30	55 771.4	1 50	76 664.9	1 137.3
31	5	1	960.54	.11	1	57 630.5	55	80 148.5	1 243.1
32	5	2	991.52	.11	2	59 489.6	2 00	83 632	1 353
33	5	3	1 022.51	.11	3	61 348.7	3 00	125 421	3 045
34	5	4	1 053.49	.12	4	63 207.8	4 00	167 177	5 413
68 35	30.985	35	1 084.48	1859.12	35	65 066.9	5 00	208 889	8 455
36	5	6	1 115.46	.13	6	66 926.0	6 00	250 546	12 173
37	5	7	1 146.45	.13	7	68 785.2	7 00	292 138	16 563
38	6	8	1 177.43	.13	8	70 644.3	8 00	333 653	21 627
39	6	9	1 208.42	.14	9	72 503.5	9 00	375 081	27 362
68 40	30.986	40	1 239.40	1859.14	40	74 362.6	10 00	416 410	33 766
41	6	1	1 270.39	.14	1	76 221.7	11 00	457 631	40 838
42	6	2	1 301.37	.15	2	78 080.9	12 00	498 732	48 577
43	6	3	1 332.36	.15	3	79 940.0	13 00	539 702	56 979
44	6	4	1 363.34	.16	4	81 799.2	14 00	580 531	66 043
68 45	30.986	45	1 394.33	1859.16	45	83 658.3	15 00	621 207	75 767
46	6	6	1 425.31	.16	6	85 517.5	16 00	661 722	86 148
47	6	7	1 456.30	.17	7	87 376.7	17 00	702 062	97 183
48	6	8	1 487.28	.17	8	89 235.8	18 00	742 219	108 869
49	6	9	1 518.27	.17	9	91 095.0	19 00	782 182	121 204
68 50	30.986	50	1 549.25	1859.18	50	92 954.2	20 00	821 940	134 183
51	6	1	1 580.24	.18	1	94 813.4	21 00	861 482	147 804
52	6	2	1 611.22	.18	2	96 672.6	22 00	900 799	162 064
53	6	3	1 642.21	.19	3	98 531.7	23 00	939 880	176 957
54	7	4	1 673.19	.19	4	100 390.9	24 00	978 715	192 481
68 55	30.987	55	1 704.18	1859.20	55	102 250.1	25 00	1 017 294	208 632
56	7	6	1 735.16	.20	6	104 109.3	26 00	1 055 606	225 404
57	7	7	1 766.15	.20	7	105 968.5	27 00	1 093 642	242 795
58	7	8	1 797.13	.21	8	107 827.7	28 00	1 131 392	260 798
59	7	9	1 828.12	.21	9	109 686.9	29 00	1 168 845	279 411
68 60	30.987	60	1 859.10	1859.21	60	111 546.2	30 00	1 205 992	298 626

Latitude 69° to 70°—Arcs of the parallel in meters

Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
69 00	11.114	22.23	33.34	44.46	55.57	66.69	77.80	88.92	100.03	666.9	1333.7	2000.6	2667.5	3334.3
1	.106	.21	.32	.42	.53	.64	.74	.85	99.95	6.4	2.7	1999.1	5.4	31.8
2	.098	.20	.29	.39	.49	.59	.68	.78	.88	5.9	1.7	7.6	3.4	29.3
3	.089	.18	.27	.36	.45	.54	.63	.72	.80	5.4	30.7	6.1	1.4	6.8
4	.081	.16	.24	.32	.40	.48	.56	.65	.73	4.8	29.7	4.5	59.4	4.2
69 05	11.072	22.14	33.22	44.29	55.36	66.43	77.51	88.58	99.65	664.3	1328.7	1993.0	2657.4	3321.7
6	.064	.13	.19	.26	.32	.38	.45	.51	.58	3.8	7.7	1.5	5.3	19.2
7	.055	.11	.17	.22	.28	.33	.39	.44	.50	3.3	6.7	90.0	3.3	6.6
8	.047	.09	.14	.19	.23	.28	.33	.38	.42	2.8	5.6	88.5	1.3	4.1
9	.039	.08	.12	.15	.19	.23	.27	.31	.35	2.3	4.6	7.0	49.3	11.6
69 10	11.030	22.06	33.09	44.12	55.15	66.18	77.21	88.24	99.27	661.8	1323.6	1985.4	2647.3	3309.1
11	.022	.04	.07	.09	.11	.13	.15	.17	.20	1.3	2.6	3.9	5.2	6.5
12	.013	.03	.04	.05	.07	.08	.09	.11	.12	0.8	1.6	2.4	3.2	4.0
13	1.005	2.01	3.02	4.02	5.02	6.03	7.03	8.04	9.04	60.3	20.6	80.9	41.2	301.5
14	0.997	1.99	2.99	3.99	4.98	5.98	6.98	7.97	8.97	59.8	19.6	79.4	39.2	299.0
69 15	10.988	21.98	32.97	43.95	54.94	65.93	76.92	87.90	98.89	659.3	1318.6	1977.9	2637.1	3296.4
16	.980	.96	.94	.92	.90	.88	.86	.84	.82	8.8	7.6	6.3	5.1	3.9
17	.971	.94	.91	.89	.86	.83	.80	.77	.74	8.3	6.6	4.8	3.1	91.4
18	.963	.93	.89	.85	.81	.78	.74	.70	.66	7.8	5.5	3.3	31.1	88.8
19	.954	.91	.86	.82	.77	.73	.68	.63	.59	7.3	4.5	1.8	29.0	6.3
69 20	10.946	21.89	32.84	43.78	54.73	65.68	76.62	87.57	98.51	656.8	1313.5	1970.3	2627.0	3283.8
21	.938	.88	.81	.75	.69	.63	.56	.50	.44	6.3	2.5	68.8	5.0	81.3
22	.929	.86	.79	.72	.65	.57	.50	.43	.36	5.7	1.5	7.2	3.0	78.7
23	.921	.84	.76	.68	.60	.53	.44	.37	.29	5.2	10.4	5.7	20.9	6.2
24	.912	.82	.74	.65	.56	.47	.39	.30	.21	4.7	09.4	4.2	18.9	3.7
69 25	10.904	21.81	32.71	43.61	54.52	65.42	76.33	87.23	98.13	654.2	1308.4	1962.7	2616.9	3271.1
26	.895	.79	.69	.58	.48	.37	.27	.16	8.06	3.7	7.4	61.2	4.9	68.6
27	.887	.77	.66	.55	.44	.32	.21	.10	7.98	3.2	6.4	59.6	2.8	6.1
28	.878	.75	.63	.51	.39	.27	.15	7.03	.90	2.7	5.4	8.1	10.8	3.5
29	.870	.74	.61	.48	.35	.22	.09	6.96	.83	2.2	4.4	6.6	08.8	61.0
69 30	10.862	21.72	32.58	43.45	54.31	65.17	76.03	86.89	97.75	651.7	1303.4	1955.1	2606.8	3258.5
31	.853	.71	.56	.41	.27	.12	5.97	.82	.68	1.2	2.4	3.6	4.7	5.9
32	.845	.69	.53	.38	.22	.07	.91	.76	.60	0.7	1.4	2.0	2.7	3.4
33	.836	.67	.51	.35	.18	5.02	.85	.69	.53	50.2	300.3	50.5	600.7	50.9
34	.828	.66	.48	.31	.14	4.97	.79	.62	.45	49.7	299.3	49.0	598.7	48.3
69 35	10.819	21.64	32.46	43.28	54.10	64.92	75.74	86.55	97.37	649.2	1298.3	1947.5	2596.6	3245.8
36	.811	.62	.43	.24	.06	.87	.68	.49	.30	8.7	7.3	6.0	4.6	3.3
37	.802	.60	.41	.21	4.01	.81	.62	.42	.22	8.1	6.3	4.4	2.6	40.7
38	.794	.59	.38	.18	3.97	.76	.56	.35	.15	7.6	5.3	2.9	90.6	38.2
39	.786	.57	.36	.14	.93	.71	.50	.29	7.07	7.1	4.2	41.4	88.5	5.7
69 40	10.777	21.55	32.33	43.11	53.89	64.66	75.44	86.22	96.99	646.6	1293.2	1939.9	2586.5	3233.1
41	.769	.54	.31	.07	.84	.61	.38	.15	.92	6.1	2.2	8.4	4.5	20.6
42	.760	.52	.28	.04	.80	.56	.32	.08	.84	5.6	1.2	6.8	2.4	28.0
43	.752	.50	.26	3.01	.76	.51	.26	6.01	.77	5.1	90.2	5.3	80.4	5.5
44	.743	.49	.23	2.97	.72	.46	.20	5.95	.69	4.6	89.2	3.8	78.4	3.0
69 45	10.735	21.47	32.20	42.94	53.67	64.41	75.15	85.88	96.61	644.1	1288.2	1932.3	2576.3	3220.4
46	.726	.45	.18	.91	.63	.36	.08	.81	.54	3.6	7.2	30.7	4.3	17.9
47	.718	.44	.15	.87	.59	.31	5.03	.74	.46	3.1	6.2	29.2	2.3	5.4
48	.709	.42	.13	.84	.55	.26	4.97	.67	.38	2.6	5.1	7.7	70.3	2.8
49	.701	.40	.10	.80	.50	.21	.91	.61	.31	2.1	4.1	6.2	68.2	10.3
69 50	10.693	21.39	32.08	42.77	53.46	64.16	74.85	85.54	96.23	641.6	1283.1	1924.7	2566.2	3207.8
51	.684	.37	.05	.74	.42	.11	.79	.47	.16	1.0	2.1	3.1	4.2	5.2
52	.676	.35	.03	.70	.38	.05	.73	.41	.08	0.5	1.1	1.6	2.1	2.7
53	.667	.33	2.00	.67	.33	4.00	.67	.34	6.00	40.0	80.0	20.1	60.1	200.1
54	.659	.32	1.98	.63	.29	3.95	.61	.27	5.93	39.5	79.0	18.6	58.1	197.6
69 55	10.650	21.30	31.95	42.60	53.25	63.90	74.55	85.20	95.85	639.0	1278.0	1917.0	2556.0	3195.1
56	.642	.28	.92	.57	.21	.85	.49	.13	.78	8.5	7.0	5.5	4.0	2.5
57	.633	.27	.90	.53	.17	.80	.43	.07	.70	8.0	6.0	4.0	52.0	90.0
58	.625	.25	.87	.50	.12	.75	.37	5.00	.62	7.5	4.9	2.5	49.9	87.4
59	.616	.23	.85	.47	.08	.70	.31	4.93	.55	7.0	3.9	10.9	7.9	4.9
69 60	10.608	21.22	31.82	42.43	53.04	63.65	74.25	84.86	95.47	636.5	1272.9	1909.4	2545.9	3182.4

Lat.	Latitude 69° to 70°—Meridional arcs					Latitude 69°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 69°30'		Value of 1'	Continuous sums of minutes from latitude 69°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
69 00	30.987			1859.21			0 1		
1	7	1	30.99	.22	1	859.2	0 2	666.9	0.1
2	7	2	61.98	.22	2	3 718.4	3	1 333.7	0.4
3	7	3	92.97	.23	3	5 577.7	4	2 000.6	0.8
4	7	4	123.95	.23	4	7 436.9	5	2 667.5	1.5
69 05	30.987	5	154.94	1859.23	5	9 296.1	0 5	3 334.3	2.3
6	7	6	185.93	.24	6	11 155.4	6	4 001.2	3.3
7	7	7	216.92	.24	7	13 014.6	7	4 668.1	4.4
8	7	8	247.91	.24	8	14 873.8	8	5 334.9	5.8
9	7	9	278.90	.25	9	16 733.1	9	6 001.8	7.3
69 10	30.988	10	309.89	1859.25	10	18 592.3	0 10	6 668.7	9.1
11	8	1	340.88	.26	1	20 451.6	15	10 003.0	20.4
12	8	2	371.86	.26	2	22 310.9	20	13 337.3	36.2
13	8	3	402.85	.26	3	24 170.1	25	16 671.5	56.6
14	8	4	433.84	.27	4	26 029.4	30	20 005.8	81.5
69 15	30.988	15	464.83	1859.27	15	27 888.6	0 35	23 340.0	110.9
16	8	6	495.82	.27	6	29 747.9	40	26 674.1	144.9
17	8	7	526.81	.28	7	31 607.2	45	30 008.2	183.3
18	8	8	557.80	.28	8	33 466.5	50	33 342.3	226.3
19	8	9	588.79	.28	9	35 325.8	55	36 676.3	273.9
69 20	30.988	20	619.77	1859.29	20	37 185.0	1 00	40 010.2	325.9
21	8	1	650.76	.29	1	39 044.3	05	43 344.0	382.5
22	8	2	681.75	.30	2	40 903.6	10	46 677.8	443.6
23	8	3	712.74	.30	3	42 762.9	15	50 011.5	509.3
24	8	4	743.73	.30	4	44 622.2	20	53 345.1	579.5
69 25	30.988	25	774.72	1859.31	25	46 481.5	1 25	56 678.6	654.2
26	8	6	805.71	.31	6	48 340.8	30	60 012.0	733.4
27	9	7	836.70	.31	7	50 200.1	35	63 345.3	817.2
28	9	8	867.68	.32	8	52 059.5	40	66 678.4	905.4
29	9	9	898.67	.32	9	53 918.8	45	70 011.5	998.2
69 30	30.989	30	929.66	1859.32	30	55 778.1	1 50	73 344.4	1 095.6
31	9	1	960.65	.33	1	57 637.4	55	76 677.1	1 197.4
32	9	2	991.64	.33	2	59 496.8	2 00	80 010	1 304
33	9	3	1 022.63	.34	3	61 356.1	3 00	119 988	2 933
34	9	4	1 053.62	.34	4	63 215.4	4 00	159 935	5 214
69 35	30.989	35	1 084.61	1859.34	35	65 074.8	5 00	199 839	8 145
36	9	6	1 115.59	.35	6	66 934.1	6 00	239 690	11 726
37	9	7	1 146.58	.35	7	68 793.5	7 00	279 477	15 956
38	9	8	1 177.57	.35	8	70 652.8	8 00	319 190	20 833
39	9	9	1 208.56	.36	9	72 512.2	9 00	358 818	26 357
69 40	30.989	40	1 239.55	1859.36	40	74 371.5	10 00	398 352	32 526
41	9	1	1 270.54	.36	1	76 230.9	11 00	437 779	39 338
42	89	2	1 301.52	.37	2	78 090.3	12 00	477 090	46 792
43	90	3	1 332.51	.37	3	79 949.6	13 00	516 275	54 885
44	0	4	1 363.50	.37	4	81 809.0	14 00	555 322	63 615
69 45	30.990	45	1 394.49	1859.38	45	83 668.4	15 00	594 222	72 931
46	0	6	1 425.48	.38	6	85 527.8	16 00	632 964	82 979
47	0	7	1 456.47	.39	7	87 387.1	17 00	671 538	93 607
48	0	8	1 487.46	.39	8	89 246.5	18 00	709 934	104 862
49	0	9	1 518.45	.39	9	91 105.9	19 00	748 142	116 741
69 50	30.990	50	1 549.44	1859.40	50	92 965.3	20 00	786 150	129 242
51	0	1	1 580.43	.40	1	94 824.7	21 00	823 950	142 359
52	0	2	1 611.41	.40	2	96 684.1	22 00	861 532	156 091
53	0	3	1 642.40	.41	3	98 543.5	23 00	898 884	170 434
54	0	4	1 673.39	.41	4	100 402.9	24 00	935 998	185 383
69 55	30.990	55	1 704.38	1859.41	55	102 262.4	25 00	972 864	200 935
56	0	6	1 735.37	.42	6	104 121.8	26 00	1 009 471	217 085
57	0	7	1 766.36	.42	7	105 981.2	27 00	1 045 810	233 830
58	0	8	1 797.35	.42	8	107 840.6	28 00	1 081 872	251 165
59	0	9	1 828.34	.43	9	109 700.0	29 00	1 117 646	269 085
69 60	30.991	60	1 859.32	1859.43	60	111 559.5	30 00	1 153 123	287 585

Latitude 70° to 71°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
70 00	10.608	21.22	31.82	42.43	53.04	63.65	74.25	84.86	95.47	636.5	1272.9	1909.4	2545.9	3182.4
1	.599	.20	.80	.40	3.00	.60	.20	.79	.39	6.0	1.9	7.9	3.8	79.8
2	.591	.18	.77	.36	2.96	.55	.14	.73	.32	5.5	70.9	6.4	41.8	7.3
3	.582	.16	.75	.33	.91	.49	.08	.66	.24	4.9	69.9	4.8	39.8	4.7
4	.574	.15	.72	.30	.87	.44	4.02	.59	.17	4.4	8.9	3.3	7.7	72.2
70 05	10.565	21.13	31.70	42.26	52.83	63.39	73.96	84.52	95.09	633.9	1267.9	1901.8	2535.7	3169.6
6	.557	.11	.67	.23	.79	.34	.90	.46	5.01	3.4	6.9	900.3	3.7	7.1
7	.549	.10	.65	.19	.74	.29	.84	.39	4.94	2.9	5.8	898.7	31.6	4.6
8	.540	.08	.62	.16	.70	.24	.78	.32	.86	2.4	4.8	7.2	29.6	62.0
9	.532	.06	.60	.13	.66	.19	.72	.25	.79	1.9	3.8	5.7	7.6	59.5
70 10	10.523	21.05	31.57	42.09	52.62	63.14	73.66	84.18	94.71	631.4	1262.8	1894.2	2525.5	3156.9
11	.515	.03	.54	.06	.57	.09	.60	.12	.63	0.9	1.8	2.6	3.5	4.4
12	.506	.01	.52	2.02	.53	3.04	.54	4.05	.55	30.4	60.8	91.1	21.5	51.8
13	.498	1.00	.49	1.99	.49	2.99	.48	3.98	.48	29.9	59.7	89.6	19.4	49.3
14	.489	0.98	.47	.96	.45	.93	.42	.91	.40	09.3	8.7	8.0	7.4	6.7
70 15	10.481	20.96	31.44	41.92	52.40	62.88	73.36	83.85	94.33	628.8	1257.7	1886.5	2515.4	3144.2
16	.472	.94	.42	.89	.36	.83	.31	.78	.25	8.3	6.7	5.0	3.3	41.7
17	.464	.93	.39	.85	.32	.78	.25	.71	.17	7.8	5.7	3.5	11.3	39.1
18	.455	.91	.37	.82	.28	.73	.19	.64	.10	7.3	4.6	1.9	09.3	6.6
19	.447	.89	.34	.79	.23	.68	.13	.57	4.02	6.8	3.6	80.4	7.2	4.0
70 20	10.438	20.88	31.31	41.75	52.19	62.63	73.07	83.51	93.94	626.3	1252.6	1878.9	2505.2	3131.5
21	.430	.86	.29	.72	.14	.58	3.01	.44	.87	5.8	1.6	7.4	3.1	28.9
22	.421	.84	.26	.68	.11	.53	2.95	.37	.79	5.3	50.6	5.8	501.1	6.4
23	.413	.83	.24	.65	.06	.48	.89	.30	.71	4.8	49.5	4.3	499.1	3.8
24	.404	.81	.21	.61	2.02	.43	.83	.23	.64	4.3	8.5	2.8	7.0	21.3
70 25	10.396	20.79	31.19	41.58	51.98	62.37	72.77	83.17	93.56	623.7	1247.5	1871.2	2495.0	3118.7
26	.387	.77	.16	.55	.94	.32	.71	.10	.49	3.2	6.5	69.7	2.9	6.2
27	.379	.76	.14	.51	.89	.27	.65	3.03	.41	2.7	5.5	8.2	90.9	3.6
28	.370	.74	.11	.48	.85	.22	.59	2.96	.33	2.2	4.4	6.7	88.9	11.1
29	.362	.72	.09	.45	.81	.17	.53	.89	.26	1.7	3.4	5.1	6.8	08.5
70 30	10.353	20.71	31.06	41.41	51.77	62.12	72.47	82.83	93.18	621.2	1242.4	1863.6	2484.8	3106.0
31	.345	.69	.03	.38	.72	.07	.41	.76	.10	0.7	1.4	2.1	2.7	3.4
32	.336	.67	1.01	.35	.68	2.02	.35	.69	3.03	20.2	40.4	60.5	80.7	100.9
33	.328	.66	0.98	.31	.64	1.97	.29	.62	2.95	19.7	39.3	59.0	78.7	098.3
34	.319	.64	.96	.28	.60	.92	.24	.55	.87	9.2	8.3	7.5	6.6	5.8
70 35	10.311	20.62	30.93	41.24	51.55	61.86	72.17	82.48	92.80	618.6	1237.3	1855.9	2474.6	3093.2
36	.302	.60	.91	.21	.51	.81	.12	.42	.72	8.1	6.3	4.4	2.5	90.7
37	.294	.59	.88	.17	.47	.76	.06	.35	.64	7.6	5.3	2.9	70.5	88.1
38	.285	.57	.86	.14	.43	.71	2.00	.28	.57	7.1	4.2	51.3	68.5	5.6
39	.277	.55	.83	.11	.38	.66	1.94	.21	.49	6.6	3.2	49.8	6.4	3.0
70 40	10.268	20.54	30.80	41.07	51.34	61.61	71.88	82.15	92.41	616.1	1232.2	1848.3	2464.4	3080.5
41	.260	.52	.78	.04	.30	.56	.82	.08	.34	5.6	1.2	6.8	2.3	77.9
42	.251	.50	.75	1.01	.26	.51	.76	2.01	.26	5.1	30.2	5.2	60.3	5.4
43	.243	.49	.73	0.97	.21	.46	.71	1.94	.18	4.6	29.1	3.7	58.3	2.8
44	.234	.47	.70	.94	.17	.41	.64	.87	.11	4.1	8.1	2.2	6.2	70.8
70 45	10.226	20.45	30.68	40.90	51.13	61.35	71.58	81.81	92.03	613.5	1227.1	1840.6	2454.2	3067.7
46	.217	.43	.65	.87	.09	.30	.52	.74	1.96	3.0	6.1	39.1	2.1	5.2
47	.209	.42	.63	.83	.04	.25	.46	.67	.88	2.5	5.1	7.6	50.1	2.6
48	.200	.40	.60	.80	1.00	.20	.40	.60	.80	2.0	4.0	6.0	48.0	60.0
49	.192	.38	.58	.77	0.96	.15	.34	.53	.73	1.5	3.0	4.5	6.0	57.5
70 50	10.183	20.37	30.55	40.73	50.92	61.10	71.28	81.46	91.65	611.0	1222.0	1833.0	2444.0	3054.9
51	.175	.35	.52	.70	.87	.05	.22	.40	.57	0.5	1.0	31.4	41.9	52.4
52	.166	.33	.50	.66	.83	1.00	.16	.33	.49	10.0	20.0	29.9	39.9	49.8
53	.158	.32	.47	.63	.79	0.95	.10	.26	.42	09.5	18.9	8.4	7.8	7.3
54	.149	.30	.45	.60	.75	.89	1.04	.19	.34	8.9	7.9	6.8	5.8	4.7
70 55	10.141	20.28	30.42	40.56	50.70	60.84	70.98	81.13	91.27	608.4	1216.9	1825.3	2433.7	3042.2
56	.132	.26	.40	.53	.66	.79	.93	1.06	.19	7.9	5.9	3.8	31.7	39.6
57	.124	.25	.37	.49	.62	.74	.87	0.99	.11	7.4	4.9	2.2	29.6	7.1
58	.115	.23	.34	.46	.58	.69	.81	.92	1.03	6.9	3.8	20.7	7.6	4.5
59	.106	.21	.32	.43	.53	.64	.75	.85	0.96	6.4	2.8	19.2	5.6	31.9
70 60	10.098	20.20	30.29	40.39	50.49	60.59	70.69	80.78	90.88	605.9	1211.8	1817.6	2423.5	3029.4

Lat.	Latitude 70° to 71°—Meridional arcs						Latitude 70°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 70°30'		Value of 1'	Continuous sums of minutes from latitude 70°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
70 00	30.991			1859.43			0 1	636.5	0.1
1	1	1	30.99	.44	1	1 859.4	0 2	1 272.9	0.3
2	1	2	61.98	.44	2	3 718.9	0 3	1 909.4	0.8
3	1	3	92.98	.44	3	5 578.3	0 4	2 545.9	1.4
4	1	4	123.97	.45	4	7 437.8	0 5	3 182.4	2.2
70 05	30.991	5	154.96	1859.45	5	9 297.2	0 6	3 818.8	3.1
6	1	6	185.95	.45	6	11 156.7	0 7	4 455.3	4.3
7	1	7	216.95	.46	7	13 016.1	0 8	5 091.8	5.6
8	1	8	247.94	.46	8	14 875.6	0 9	5 728.2	7.0
9	1	9	278.93	.46	9	16 735.0	0 10	6 364.7	8.7
70 10	30.991	10	309.92	1859.47	10	18 594.5	0 15	9 547.0	19.5
11	1	1	340.92	.47	1	20 454.0	0 20	12 729.3	34.8
12	1	2	371.91	.47	2	22 313.4	0 25	15 911.6	54.4
13	1	3	402.90	.48	3	24 172.9	0 30	19 093.9	78.3
14	1	4	433.89	.48	4	26 032.4	0 35	22 276.1	106.6
70 15	30.991	15	464.88	1859.49	15	27 891.9	0 40	25 458.3	139.2
16	1	6	495.88	.49	6	29 751.4	0 45	28 640.4	176.2
17	2	7	526.87	.49	7	31 610.9	0 50	31 822.5	217.5
18	2	8	557.86	.50	8	33 470.3	0 55	35 004.5	263.1
19	2	9	588.85	.50	9	35 329.8	1 00	38 186.5	313.1
70 20	30.992	20	619.85	1859.50	20	37 189.3	1 05	41 368.4	367.5
21	2	1	650.84	.51	1	39 048.9	1 10	44 550.2	426.2
22	2	2	681.83	.51	2	40 908.4	1 15	47 731.9	489.3
23	2	3	712.82	.51	3	42 767.9	1 20	50 913.6	556.7
24	2	4	743.81	.52	4	44 627.4	1 25	54 095.1	628.5
70 25	30.992	25	774.81	1859.52	25	46 486.9	1 30	57 276.5	704.6
26	2	6	805.80	.52	6	48 346.4	1 35	60 457.9	785.0
27	2	7	836.79	.53	7	50 206.0	1 40	63 639.1	869.8
28	2	8	867.78	.53	8	52 065.5	1 45	66 820.2	959.0
29	2	9	898.78	.53	9	53 925.0	1 50	70 001.2	1 052.5
70 30	30.992	30	929.78	1859.54	30	55 784.5	1 55	73 182.0	1 150.3
31	2	1	960.76	.54	1	57 644.1	2 00	76 363	1 253
32	2	2	991.75	.54	2	59 503.6	2 05	79 544.5	1 356
33	2	3	1 022.75	.55	3	61 363.2	2 10	82 726.0	1 459
34	3	4	1 053.74	.55	4	63 222.7	2 15	85 907.5	1 562
70 35	30.993	35	1 084.73	1859.55	35	65 082.3	2 20	89 089.0	1 665
36	3	6	1 115.72	.56	6	66 941.8	2 25	92 270.5	1 768
37	3	7	1 146.71	.56	7	68 801.4	2 30	95 452.0	1 871
38	3	8	1 177.71	.57	8	70 661.0	2 35	98 633.5	1 974
39	3	9	1 208.70	.57	9	72 520.5	2 40	101 815.0	2 077
70 40	30.993	40	1 239.69	1859.57	40	74 380.1	2 45	104 996.5	2 180
41	3	1	1 270.68	.58	1	76 239.7	2 50	108 178.0	2 283
42	3	2	1 301.68	.58	2	78 099.2	2 55	111 359.5	2 386
43	3	3	1 332.67	.58	3	79 958.8	3 00	114 541.0	2 489
44	3	4	1 363.66	.59	4	81 818.4	3 05	117 722.5	2 592
70 45	30.993	45	1 394.65	1859.59	45	83 678.0	3 10	120 904.0	2 695
46	3	6	1 425.65	.59	6	85 537.6	3 15	124 085.5	2 798
47	3	7	1 456.64	.60	7	87 397.2	3 20	127 267.0	2 901
48	3	8	1 487.63	.60	8	89 256.8	3 25	130 448.5	3 004
49	3	9	1 518.62	.60	9	91 116.4	3 30	133 630.0	3 107
70 50	30.993	50	1 549.61	1859.61	50	92 976.0	3 35	136 811.5	3 210
51	3	1	1 580.61	.61	1	94 835.6	3 40	140 000.0	3 313
52	4	2	1 611.60	.61	2	96 695.2	3 45	143 188.5	3 416
53	4	3	1 642.59	.62	3	98 554.8	3 50	146 377.0	3 519
54	4	4	1 673.58	.62	4	100 414.5	3 55	149 565.5	3 622
70 55	30.994	55	1 704.58	1859.62	55	102 274.1	4 00	152 754.0	3 725
56	4	6	1 735.57	.63	6	104 133.7	4 05	155 942.5	3 828
57	4	7	1 766.56	.63	7	105 993.3	4 10	159 131.0	3 931
58	4	8	1 797.55	.63	8	107 853.0	4 15	162 319.5	4 034
59	4	9	1 828.55	.64	9	109 712.6	4 20	165 508.0	4 137
70 60	30.994	60	1 859.54	1859.64	60	111 572.2	4 25	168 696.5	4 240

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 71° to 72°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
71 00	10.098	20.20	30.29	40.39	50.49	60.59	70.69	80.78	90.88	605.9	1211.8	1817.6	2423.5	3029.4
1	.089	.18	.27	.36	.45	.54	.63	.71	.80	5.4	10.7	16.1	21.5	26.8
2	.081	.16	.24	.32	.40	.49	.57	.65	.73	4.9	9.7	14.6	19.4	24.3
3	.072	.14	.22	.29	.36	.43	.51	.58	.65	4.3	8.7	13.0	17.4	21.7
4	.064	.13	.19	.25	.32	.38	.45	.51	.57	3.8	7.7	11.5	15.3	19.1
71 05	10.055	20.11	30.17	40.22	50.28	60.33	70.39	80.44	90.50	603.3	1206.6	1810.0	2413.3	3016.6
6	.047	.09	.14	.19	.23	.28	.33	.37	.42	2.8	5.6	8.4	11.2	14.0
7	.038	.08	.12	.15	.19	.23	.27	.30	.34	2.2	4.6	6.9	9.2	11.5
8	.030	.06	.09	.12	.15	.18	.21	.24	.27	1.7	3.6	5.3	7.1	8.9
9	.021	.04	.06	.09	.11	.13	.15	.17	.19	1.3	2.6	3.8	5.1	6.4
71 10	10.013	20.03	30.04	40.05	50.06	60.08	70.09	80.10	90.11	600.8	1201.5	1802.3	2403.0	3003.8
11	10.004	20.01	30.01	40.02	50.02	60.02	70.03	80.03	90.04	600.2	1200.5	1800.7	2401.0	3001.2
12	9.996	19.99	29.99	39.98	49.98	59.97	69.97	79.97	89.96	599.7	1199.5	1799.2	2398.9	2998.7
13	.987	.97	.96	.95	.93	.92	.91	.90	.88	9.2	8.4	7.7	6.9	6.1
14	.979	.96	.94	.91	.89	.87	.85	.83	.81	8.7	7.4	6.1	4.8	3.6
71 15	9.970	19.94	29.91	39.88	49.85	59.82	69.79	79.76	89.73	598.2	1196.4	1794.6	2392.8	2991.0
16	.961	.92	.88	.85	.81	.77	.73	.69	.65	7.7	5.4	3.1	1.5	0.7
17	.953	.91	.86	.81	.77	.72	.67	.62	.58	7.2	4.3	1.5	0.8	0.5
18	.944	.89	.83	.78	.72	.67	.61	.55	.50	6.7	3.3	0.9	0.6	0.3
19	.936	.87	.81	.74	.68	.61	.55	.49	.42	6.1	2.3	0.8	0.4	0.2
71 20	9.927	19.85	29.78	39.71	49.64	59.56	69.49	79.42	89.35	595.6	1191.3	1786.9	2382.5	2978.2
21	.919	.84	.76	.67	.59	.51	.43	.35	.27	5.1	9.0	5.4	8.0	5.6
22	.910	.82	.73	.64	.55	.46	.37	.28	.19	4.6	8.2	3.8	7.8	3.1
23	.902	.80	.71	.61	.51	.41	.31	.21	.12	4.1	8.2	2.3	6.4	7.5
24	.893	.79	.68	.57	.47	.36	.25	.14	.04	3.6	7.2	8.0	4.3	6.7
71 25	9.885	19.77	29.65	39.54	49.42	59.31	69.19	79.08	88.96	593.1	1186.1	1779.2	2372.3	2965.4
26	.876	.75	.63	.50	.38	.26	.13	9.01	.88	2.6	5.1	7.7	7.0	2.3
27	.867	.73	.60	.47	.34	.20	.07	8.94	.81	2.0	4.1	6.1	6.8	6.2
28	.859	.72	.58	.44	.30	.15	9.01	.87	.73	1.5	3.1	4.6	6.1	5.7
29	.850	.70	.55	.40	.25	.10	8.95	.80	.65	1.0	2.0	3.1	4.1	5.1
71 30	9.842	19.68	29.53	39.37	49.21	59.05	68.89	78.73	88.58	590.5	1181.0	1771.5	2362.0	2952.5
31	.833	.67	.50	.33	.17	9.00	.93	.67	.50	9.0	8.0	7.0	6.0	5.0
32	.825	.65	.47	.30	.12	8.95	.77	.60	.42	8.5	7.9	6.4	5.7	4.7
33	.816	.63	.45	.26	.08	9.00	.71	.53	.35	9.0	7.9	6.9	5.9	4.8
34	.808	.62	.42	.23	9.04	.85	.65	.46	.27	8.5	6.9	5.4	3.8	4.2
71 35	9.799	19.60	29.40	39.20	48.99	58.79	68.59	78.39	88.20	587.9	1175.9	1763.8	2351.8	2939.7
36	.790	.58	.37	.16	.95	.74	.53	.32	.12	7.4	4.9	2.3	4.9	7.1
37	.782	.56	.35	.13	.91	.69	.47	.26	8.04	6.9	3.8	6.0	7.7	4.6
38	.773	.55	.32	.09	.87	.64	.41	.19	7.96	6.4	2.8	5.9	5.6	3.2
39	.765	.53	.30	.06	.82	.59	.35	.12	.89	5.9	1.8	7.7	3.6	2.9
71 40	9.756	19.51	29.27	39.03	48.78	58.54	68.29	78.05	87.81	585.4	1170.8	1756.1	2341.5	2926.9
41	.748	.50	.24	8.99	.74	.49	.23	7.98	.73	4.9	6.9	4.6	3.9	4.3
42	.739	.48	.22	.96	.69	.43	.17	.91	.66	4.3	8.7	3.0	7.4	2.1
43	.731	.46	.19	.92	.65	.38	.11	.85	.58	3.8	7.7	1.5	5.3	1.9
44	.722	.44	.17	.89	.61	.33	8.05	.78	.50	3.3	6.6	5.0	3.3	6.6
71 45	9.713	19.43	29.14	38.85	48.57	58.28	67.99	77.71	87.42	582.8	1165.6	1748.4	2331.2	2914.0
46	.705	.41	.11	.82	.52	.23	.93	.64	.35	2.3	4.6	6.9	2.9	1.5
47	.696	.39	.09	.79	.48	.18	.87	.57	.27	1.8	3.6	5.3	7.1	0.8
48	.688	.38	.06	.75	.44	.13	.81	.50	.19	1.3	2.5	3.8	5.1	6.3
49	.679	.36	.04	.72	.40	.08	.76	.43	.11	0.8	1.5	2.3	3.0	3.8
71 50	9.671	19.34	29.01	38.68	48.35	58.02	67.69	77.37	87.04	580.2	1160.5	1740.7	2321.0	2901.2
51	.662	.32	8.99	.65	.31	7.97	.63	.30	6.96	7.9	5.9	3.9	1.9	8.9
52	.653	.31	.96	.61	.27	.92	.57	.23	.88	9.2	8.4	7.6	6.3	6.0
53	.645	.29	.93	.58	.22	.87	.51	.16	.81	8.7	7.4	6.1	4.8	3.5
54	.636	.27	.91	.55	.18	.82	.45	.09	.73	8.2	6.4	4.5	2.7	9.9
71 55	9.628	19.26	28.88	38.51	48.14	57.77	67.39	77.02	86.65	577.7	1155.3	1733.0	2310.7	2888.3
56	.619	.24	.86	.48	.10	.72	.34	6.95	.57	7.2	4.3	3.1	0.8	5.8
57	.611	.22	.83	.44	.05	.66	.27	.89	.50	6.6	3.3	2.9	6.6	3.2
58	.602	.20	.81	.41	8.01	.61	.21	.82	.42	6.1	2.2	8.4	4.5	3.0
59	.593	.19	.78	.37	7.96	.56	.15	.75	.34	5.6	1.2	6.8	2.4	7.8
71 60	9.585	19.17	28.75	38.34	47.92	57.51	67.09	76.68	86.26	575.1	1150.2	1725.3	2300.4	2875.5

Lat.	Latitude 71° to 72°—Meridional arcs						Latitude 71°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 71°30'		Value of 1'	Continuous sums of minutes from latitude 71°00'		Longitude	X	Y	
	Meters	''	Meters	Meters	'	Meters	° '	Meters	Meters	
71 00	30.994			1859.64			0 1	605.9	0.1	
1	4	1	31.00	.64	1	859.6	2	1 211.8	0.3	
2	4	2	61.99	.65	2	719.3	3	1 817.6	0.7	
3	4	3	92.99	.65	3	5 578.9	4	2 423.5	1.3	
4	4	4	123.98	.65	4	7 438.6				
71 05	30.994	5	154.98	1859.66	5	9 298.3	0 5	3 029.4	2.1	
6	4	6	185.97	.66	6	11 157.9	6	3 635.3	3.0	
7	4	7	216.97	.66	7	13 017.6	7	4 241.1	4.1	
8	4	8	247.97	.67	8	14 877.2	8	4 847.0	5.3	
9	5	9	278.96	.67	9	16 736.9	9	5 452.9	6.7	
71 10	30.995	10	309.96	1859.67	10	18 596.6	0 10	6 058.8	8.3	
11	5	1	340.95	.68	1	20 456.3	15	9 058.1	18.7	
12	5	2	371.95	.68	2	22 315.9	20	12 117.5	33.3	
13	5	3	402.94	.68	3	24 175.6	25	15 146.8	52.1	
14	5	4	433.94	.69	4	26 035.3	30	18 176.1	75.0	
71 15	30.995	15	464.94	1859.69	15	27 895.0	0 35	21 205.4	102.1	
16	5	6	495.93	.69	6	29 754.7	40	24 234.6	133.3	
17	5	7	526.93	.70	7	31 614.4	45	27 263.8	168.7	
18	5	8	557.92	.70	8	33 474.1	50	30 292.9	203.3	
19	5	9	588.92	.70	9	35 333.8	55	33 322.0	252.0	
71 20	30.995	20	619.91	1859.71	20	37 193.5	1 00	36 351.0	299.9	
21	5	1	650.91	.71	1	39 053.2	05	39 379.9	352.0	
22	5	2	681.91	.71	2	40 912.9	10	42 408.8	408.3	
23	5	3	712.90	.72	3	42 772.7	15	45 437.5	468.7	
24	5	4	743.90	.72	4	44 632.4	20	48 466.2	533.2	
71 25	30.995	25	774.89	1859.72	25	46 492.1	1 25	51 494.9	602.0	
26	5	6	805.89	.73	6	48 351.8	30	54 523.4	674.9	
27	6	7	836.88	.73	7	50 211.6	35	57 551.8	751.9	
28	6	8	867.88	.73	8	52 071.3	40	60 580.1	833.2	
29	6	9	898.88	.74	9	53 931.0	45	63 608.3	918.5	
71 30	30.996	30	929.87	1859.74	30	55 790.8	1 50	66 636.3	1 008.1	
31	6	1	960.87	.74	1	57 650.5	55	69 664.3	1 101.8	
32	6	2	991.86	.75	2	59 510.3	2 00	72 692	1 200	
33	6	3	1 022.86	.75	3	61 370.0	3 00	109 013	2 699	
34	6	4	1 053.85	.75	4	63 229.8	4 00	145 305	4 798	
71 35	30.996	35	1 084.85	1859.76	35	65 089.5	5 00	181 557	7 495	
36	6	6	1 115.84	.76	6	66 949.3	6 00	217 760	10 789	
37	6	7	1 146.84	.76	7	68 809.1	7 00	253 903	14 681	
38	6	8	1 177.84	.77	8	70 668.8	8 00	289 977	19 169	
39	6	9	1 208.83	.77	9	72 528.6	9 00	325 972	24 252	
71 40	30.996	40	1 239.83	1859.77	40	74 388.4	10 00	361 879	29 927	
41	6	1	1 270.82	.78	1	76 248.1	11 00	397 686	36 195	
42	6	2	1 301.82	.78	2	78 107.9	12 00	433 886	43 052	
43	6	3	1 332.81	.78	3	79 967.7	13 00	468 967	50 498	
44	6	4	1 363.81	.79	4	81 827.5	14 00	504 421	58 530	
71 45	30.997	45	1 394.81	1859.79	45	83 687.3	15 00	539 738	67 146	
46	7	6	1 425.80	.79	6	85 547.1	16 00	574 907	76 343	
47	7	7	1 456.80	.80	7	87 406.9	17 00	609 920	86 119	
48	7	8	1 487.79	.80	8	89 266.7	18 00	644 767	96 472	
49	7	9	1 518.79	.80	9	91 126.5	19 00	679 438	107 399	
71 50	30.997	50	1 549.78	1859.81	50	92 986.3	20 00	713 925	118 896	
51	7	1	1 580.78	.81	1	94 846.1	21 00	748 216	130 961	
52	7	2	1 611.78	.81	2	96 705.9	22 00	782 304	143 590	
53	7	3	1 642.77	.82	3	98 565.7	23 00	816 179	156 779	
54	7	4	1 673.77	.82	4	100 425.5	24 00	849 832	170 526	
71 55	30.997	55	1 704.76	1859.82	55	102 285.4	25 00	883 253	184 827	
56	7	6	1 735.76	.83	6	104 145.2	26 00	916 434	199 677	
57	7	7	1 766.75	.83	7	106 005.0	27 00	949 365	215 072	
58	7	8	1 797.75	.83	8	107 864.9	28 00	982 038	231 009	
59	7	9	1 828.75	.84	9	109 724.7	29 00	1 014 443	247 483	
71 60	30.997	60	1 859.74	1859.84	60	111 584.5	30 00	1 046 572	264 489	

Latitude 72° to 73°—Arcs of the parallel in meters

Lat.	1"	2"	3"	4"	5"	6"	7"	8"	9"	1'	2'	3'	4'	5'
72 00	9.585	19.17	28.75	38.34	47.92	57.51	67.09	76.68	86.26	575.1	1150.2	1725.3	2300.4	2875.5
1	.576	.15	.73	.31	.88	.46	7.03	.61	.19	4.6	49.2	3.7	298.3	2.9
2	.568	.14	.70	.27	.84	.41	6.97	.54	.11	4.1	8.1	2.2	6.3	70.3
3	.559	.12	.68	.24	.80	.36	.92	.47	6.03	3.6	7.1	20.7	4.2	67.8
4	.551	.10	.65	.20	.75	.30	.85	.41	5.96	3.0	6.1	19.1	2.1	5.2
72 05	9.542	19.08	28.63	38.17	47.71	57.25	66.79	76.34	85.88	572.5	1145.0	1717.6	2290.1	2862.6
6	.533	.07	.60	.13	.67	.20	.73	.27	.80	2.0	4.0	6.0	88.0	60.0
7	.525	.05	.58	.10	.63	.15	.67	.20	.72	1.5	3.0	4.5	6.0	57.5
8	.516	.03	.55	.07	.58	.10	.61	.13	.65	1.0	2.0	2.9	3.9	4.9
9	.508	.02	.52	.03	.54	.05	.55	.06	.57	70.5	40.9	11.4	81.8	2.3
72 10	9.499	19.00	28.50	38.00	47.50	56.99	66.49	75.99	85.49	569.9	1139.9	1709.8	2279.8	2849.7
11	.491	8.98	.47	7.96	.45	.94	.43	.93	.42	9.4	8.9	8.3	7.7	7.2
12	.482	.96	.45	.93	.41	.89	.37	.86	.34	8.9	7.8	6.8	5.7	4.6
13	.473	.95	.42	.89	.37	.84	.31	.79	.26	8.4	6.8	5.2	3.6	42.0
14	.465	.93	.39	.86	.32	.79	.25	.72	.18	7.9	5.8	3.7	71.5	39.4
72 15	9.456	18.91	28.37	37.83	47.28	56.74	66.19	75.65	85.11	567.4	1134.7	1702.1	2269.5	2836.9
16	.448	.90	.34	.79	.24	.69	.13	.58	5.03	6.9	3.7	700.6	7.4	4.3
17	.439	.88	.32	.76	.20	.63	.07	.51	4.95	6.3	2.7	699.0	5.4	31.7
18	.430	.86	.29	.72	.15	.58	6.01	.44	.87	5.8	1.7	7.5	3.3	29.1
19	.422	.84	.27	.69	.11	.53	5.95	.38	.80	5.3	30.6	5.9	61.2	6.6
72 20	9.413	18.83	28.24	37.65	47.07	56.48	65.89	75.31	84.72	564.8	1129.6	1694.4	2259.2	2824.0
21	.405	.81	.21	.62	7.02	.43	.83	.24	.64	4.3	8.6	2.8	7.1	21.4
22	.396	.79	.19	.58	6.98	.38	.77	.17	.56	3.8	7.5	91.3	5.1	18.8
23	.387	.77	.16	.55	.94	.32	.71	.10	.49	3.2	6.5	89.7	3.0	6.2
24	.379	.76	.14	.52	.90	.27	.65	5.03	.41	2.7	5.5	8.2	50.9	3.7
72 25	9.370	18.74	28.11	37.48	46.85	56.22	65.59	74.96	84.33	562.2	1124.4	1686.6	2248.9	2811.1
26	.362	.72	.08	.45	.81	.17	.53	.89	.26	1.7	3.4	5.1	6.8	08.5
27	.353	.71	.06	.41	.77	.12	.47	.82	.18	1.2	2.4	3.6	4.7	5.9
28	.344	.69	.03	.38	.72	.07	.41	.75	.10	0.7	1.3	2.0	2.7	3.3
29	.336	.67	8.01	.34	.68	6.02	.35	.69	4.02	60.2	20.3	80.5	40.6	800.8
72 30	9.327	18.65	27.98	37.31	46.64	55.96	65.29	74.62	83.95	559.6	1119.3	1678.9	2238.6	2798.2
31	.319	.64	.96	.27	.59	.91	.23	.55	.87	9.1	8.2	7.4	6.5	5.6
32	.310	.62	.93	.24	.55	.86	.17	.48	.79	8.6	7.2	5.8	4.4	3.0
33	.301	.60	.90	.21	.51	.81	.11	.41	.71	8.1	6.2	4.3	2.4	90.4
34	.293	.59	.88	.17	.47	.76	5.05	.34	.64	7.6	5.1	2.7	30.3	87.9
72 35	9.284	18.57	27.85	37.14	46.42	55.71	64.99	74.27	83.56	557.1	1114.1	1671.2	2228.2	2785.3
36	.276	.55	.83	.10	.38	.65	.93	.21	.48	6.5	3.1	69.6	6.2	2.7
37	.267	.53	.80	.07	.34	.60	.87	.14	.40	6.0	2.0	8.1	4.1	80.1
38	.258	.51	.77	.03	.29	.55	.81	.07	.32	5.5	1.0	6.5	2.0	77.5
39	.250	.50	.75	7.00	.25	.50	.75	4.00	.25	5.0	10.0	5.0	20.0	5.0
72 40	9.241	18.48	27.72	36.97	46.21	55.45	64.69	73.93	83.17	554.5	1109.0	1663.4	2217.9	2772.4
41	.233	.47	.70	.93	.16	.40	.63	.86	.09	4.0	7.9	1.9	5.8	69.8
42	.224	.45	.67	.90	.12	.34	.57	.79	3.02	3.4	6.9	60.3	3.8	7.2
43	.215	.43	.65	.86	.08	.29	.51	.72	2.94	2.9	5.8	58.8	11.7	4.6
44	.207	.41	.62	.83	6.03	.24	.45	.65	.86	2.4	4.8	7.2	09.6	62.0
72 45	9.198	18.40	27.60	36.79	45.99	55.19	64.39	73.59	82.78	551.9	1103.8	1655.7	2207.6	2759.5
46	.190	.38	.57	.76	.95	.14	.33	.52	.71	1.4	2.7	4.1	5.5	6.9
47	.181	.36	.54	.72	.91	.09	.27	.45	.63	0.9	1.7	2.6	3.4	4.3
48	.172	.34	.52	.69	.86	5.03	.21	.38	.55	50.3	100.7	51.0	201.4	51.7
49	.164	.33	.49	.65	.82	4.98	.15	.31	.47	49.8	099.6	49.5	199.3	49.1
72 50	9.155	18.31	27.47	36.62	45.78	54.93	64.09	73.24	82.40	549.3	1098.6	1647.9	2197.2	2746.5
51	.147	.29	.44	.59	.73	.88	4.03	.17	.32	3.8	7.6	6.4	5.2	4.0
52	.138	.28	.41	.55	.69	.83	3.97	.10	.24	8.3	6.5	4.8	3.1	41.4
53	.129	.26	.39	.52	.65	.78	.91	3.03	.16	7.8	5.5	3.3	91.0	38.8
54	.121	.24	.36	.48	.60	.72	.84	2.97	.09	7.2	4.5	1.7	89.0	6.2
72 55	9.112	18.22	27.34	36.45	45.56	54.67	63.78	72.90	82.01	546.7	1093.4	1640.2	2186.9	2733.6
56	.103	.21	.31	.41	.52	.62	.72	.83	1.93	6.2	2.4	38.6	4.8	31.0
57	.095	.19	.28	.38	.47	.57	.66	.76	.85	5.7	1.4	7.1	2.8	28.4
58	.086	.17	.26	.35	.43	.52	.60	.69	.78	5.2	90.4	5.5	80.7	5.9
59	.078	.16	.23	.31	.39	.47	.54	.62	.70	4.7	89.3	4.0	78.6	3.3
72 60	9.069	18.14	27.21	36.28	45.35	54.41	63.48	72.55	81.62	544.1	1088.3	1632.4	2176.5	2720.7

Lat.	Latitude 72° to 73°—Meridional arcs					Latitude 72°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 72°30'		Value of 1'	Continuous sums of minutes from latitude 72°00'	Longitude	X	Y	
° ' "	Meters	''	Meters	Meters	' "	Meters	Meters	Meters	
72 00	30.997			1859.84					
1	7	1	31.00	.84	1	1 859.8	0 1	575.1	0.1
2	7	2	62.00	.85	2	3 719.7	2	1 150.2	0.3
3	7	3	93.00	.85	3	5 579.5	3	1 725.3	0.7
4	8	4	124.00	.85	4	7 439.4	4	2 300.4	1.3
72 05	30.998			1859.86					
6	8	5	154.99	.86	5	9 299.2	0 5	2 875.5	2.0
7	8	6	185.99	.86	6	11 159.1	6	3 450.6	2.9
8	8	7	216.99	.86	7	13 019.0	7	4 025.7	3.9
9	8	8	247.99	.87	8	14 878.8	8	4 600.8	5.1
	8	9	278.99	.87	9	16 738.7	9	5 175.9	6.4
72 10	30.998			1859.87					
11	8	10	309.99	.88	10	18 598.6	0 10	5 751.0	8.0
12	8	1	340.99	.88	1	20 458.4	15	8 626.4	17.9
13	8	2	371.99	.88	2	22 318.3	20	11 501.9	31.8
14	8	3	402.99	.88	3	24 178.2	25	14 377.3	49.7
	8	4	433.99	.89	4	26 038.1	30	17 252.7	71.6
72 15	30.998			1859.89					
16	8	15	464.98	.89	15	27 898.0	0 35	20 128.1	97.5
17	8	6	495.98	.89	6	29 757.9	40	23 003.4	127.3
18	8	7	526.98	.89	7	31 617.7	45	25 878.7	161.1
19	8	8	557.98	.90	8	33 477.6	50	28 753.9	198.9
	8	9	588.98	.90	9	35 337.5	55	31 629.1	240.6
72 20	30.998			1859.90					
21	8	20	619.98	.91	20	37 197.4	1 00	34 504.2	286.4
22	9	1	650.98	.91	1	39 057.3	05	37 379.2	336.1
23	9	2	681.98	.91	2	40 917.3	10	40 254.2	389.8
24	9	3	712.98	.91	3	42 777.2	15	43 129.1	447.5
	9	4	743.97	.92	4	44 637.1	20	46 003.9	509.1
72 25	30.999			1859.92					
26	9	25	774.97	.92	25	46 497.0	1 25	48 878.7	574.7
27	9	6	805.97	.92	6	48 356.9	30	51 753.3	644.3
28	9	7	836.97	.93	7	50 216.8	35	54 627.9	717.9
29	9	8	867.97	.93	8	52 076.8	40	57 502.3	795.5
	9	9	898.97	.93	9	53 936.7	45	60 376.6	877.0
72 30	30.999			1859.94					
31	9	30	929.97	.94	30	55 796.6	1 50	63 250.8	962.5
32	9	1	960.97	.94	1	57 656.6	55	66 124.9	1 052.0
33	9	2	991.97	.94	2	59 516.5	2 00	68 999	1 145
34	9	3	1 022.96	.95	3	61 376.5	3 00	103 475	2 577
	9	4	1 053.96	.95	4	63 236.4	4 00	137 922	4 580
72 35	30.999			1859.95					
36	9	35	1 084.96	.96	35	65 096.4	5 00	172 331	7 155
37	9	6	1 115.96	.96	6	66 956.3	6 00	206 693	10 301
38	9	7	1 146.96	.96	7	68 816.3	7 00	240 997	14 017
39	9	8	1 177.96	.96	8	70 676.2	8 00	275 236	18 302
	9	9	1 208.96	.96	9	72 536.2	9 00	309 398	23 154
72 40	30.999			1859.97					
41	31.000	40	1 239.96	.97	40	74 396.2	10 00	343 475	28 572
42	0	1	1 270.96	.97	1	76 256.1	11 00	377 458	34 556
43	0	2	1 301.96	.97	2	78 116.1	12 00	411 337	41 103
44	0	3	1 332.95	.98	3	79 976.1	13 00	445 102	48 211
	0	4	1 363.95	.98	4	81 836.1	14 00	478 745	55 879
72 45	31.000			1859.98					
46	0	45	1 394.95	.99	45	83 696.1	15 00	512 255	64 104
47	0	6	1 425.95	.99	6	85 556.1	16 00	545 625	72 834
48	0	7	1 456.95	.99	7	87 416.0	17 00	578 844	82 217
49	0	8	1 487.95	59.99	8	89 276.0	18 00	611 904	92 100
	0	9	1 518.95	60.00	9	91 136.0	19 00	644 795	102 530
72 50	31.000			1860.00					
51	0	50	1 549.95	.00	50	92 996.0	20 00	677 509	113 505
52	0	1	1 580.95	.01	1	94 856.0	21 00	710 036	125 021
53	0	2	1 611.94	.01	2	96 716.0	22 00	742 367	137 075
54	0	3	1 642.94	.01	3	98 576.0	23 00	774 494	149 665
	0	4	1 673.94	.01	4	100 436.0	24 00	806 407	162 786
72 55	31.000			1860.01					
56	0	55	1 704.94	.02	55	102 296.1	25 00	838 098	176 435
57	0	6	1 735.94	.02	6	104 156.1	26 00	869 558	190 608
58	0	7	1 766.94	.02	7	106 016.1	27 00	900 779	205 301
59	0	8	1 797.94	.02	8	107 876.1	28 00	931 751	220 511
60	31.001	9	1 828.94	.03	9	109 736.1	29 00	962 467	236 232
	0	60	1 859.94	1860.03	60	111 596.2	30 00	992 918	252 461

Lat.	Latitude 73° to 74°—Meridional arcs						Latitude 73°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 73°30'		Value of 1'	Continuous sums of minutes from latitude 73°00'		Longitude	X	Y
		Meters	''		Meters	Meters			
73 00	31.001	1	31.00	1860.03	1	1 860.0	0 1	544.1	0.1
1	1	2	62.00	.03	2	3 720.1	0 2	1 088.3	0.3
2	1	3	93.01	.04	3	5 580.1	0 3	1 632.4	0.7
3	1	4	124.01	.04	4	7 440.2	0 4	2 176.6	1.2
73 05	31.001	5	155.01	1860.05	5	9 300.2	0 5	2 720.7	1.9
6	1	6	186.01	.05	6	11 160.2	0 6	3 264.8	2.7
7	1	7	217.01	.05	7	13 020.3	0 7	3 809.0	3.7
8	1	8	248.02	.05	8	14 880.4	0 8	4 353.1	4.8
9	1	9	279.02	.06	9	16 740.4	0 9	4 897.2	6.1
73 10	31.001	10	310.02	1860.06	10	18 600.5	0 10	5 441.4	7.6
11	1	1	341.02	.06	1	20 460.5	0 15	8 162.0	17.0
12	1	2	372.02	.07	2	22 320.6	0 20	10 882.7	30.3
13	1	3	403.03	.07	3	24 180.7	0 25	13 603.3	47.3
14	1	4	434.03	.07	4	26 040.7	0 30	16 323.9	68.1
73 15	31.001	15	465.03	1860.08	15	27 900.8	0 35	19 044.5	92.7
16	1	6	496.03	.08	6	29 760.9	0 40	21 765.0	121.1
17	1	7	527.03	.08	7	31 621.0	0 45	24 485.5	153.3
18	1	8	558.04	.09	8	33 481.1	0 50	27 206.0	189.2
19	1	9	589.04	.09	9	35 341.1	0 55	29 926.4	228.9
73 20	31.002	20	620.04	1860.09	20	37 201.2	1 00	32 646.7	272.4
21	2	1	651.04	.09	1	39 061.3	1 05	35 367.0	319.7
22	2	2	682.04	.10	2	40 921.4	1 10	38 087.2	370.8
23	2	3	713.05	.10	3	42 781.5	1 15	40 807.3	425.7
24	2	4	744.05	.10	4	44 641.6	1 20	43 527.4	484.3
73 25	31.002	25	775.05	1860.11	25	46 501.7	1 25	46 247.3	546.8
26	2	6	806.05	.11	6	48 361.8	1 30	48 967.2	613.0
27	2	7	837.05	.11	7	50 221.9	1 35	51 687.0	683.0
28	2	8	868.06	.12	8	52 082.1	1 40	54 406.7	756.8
29	2	9	899.06	.12	9	53 942.2	1 45	57 126.3	834.3
73 30	31.002	30	930.06	1860.12	30	55 802.3	1 50	59 845.8	915.7
31	2	1	961.06	.12	1	57 662.4	1 55	62 565.1	1 000.8
32	2	2	992.06	.13	2	59 522.5	2 00	65 284	1 090
33	2	3	1 023.07	.13	3	61 382.7	2 05	67 994	2 452
34	2	4	1 054.07	.13	4	63 242.8	2 10	70 704	4 358
73 35	31.002	35	1 085.07	1860.14	35	65 102.9	5 00	163 052	6 808
36	2	6	1 116.07	.14	6	66 963.1	5 05	165 812	9 800
37	2	7	1 147.07	.14	7	68 823.2	5 10	168 572	13 335
38	2	8	1 178.08	.15	8	70 683.4	5 15	171 332	17 412
39	2	9	1 209.08	.15	9	72 543.5	5 20	174 089	22 028
73 40	31.003	40	1 240.08	1860.15	40	74 403.7	10 00	324 968	27 183
41	3	1	1 271.08	.15	1	76 263.8	10 05	327 727	32 875
42	3	2	1 302.09	.16	2	78 124.0	10 10	330 486	38 567
43	3	3	1 333.09	.16	3	79 984.1	10 15	333 245	44 259
44	3	4	1 364.09	.16	4	81 844.3	10 20	336 004	49 951
73 45	31.003	45	1 395.09	1860.17	45	83 704.5	15 00	484 623	60 984
46	3	6	1 426.09	.17	6	85 564.6	15 05	487 382	66 676
47	3	7	1 457.10	.17	7	87 424.8	15 10	490 141	72 368
48	3	8	1 488.10	.18	8	89 285.0	15 15	492 900	78 060
49	3	9	1 519.10	.18	9	91 145.2	15 20	495 659	83 752
73 50	31.003	50	1 550.10	1860.18	50	93 005.4	20 00	640 905	107 976
51	3	1	1 581.10	.18	1	94 865.5	20 05	643 664	113 668
52	3	2	1 612.11	.19	2	96 725.7	20 10	646 423	119 360
53	3	3	1 643.11	.19	3	98 585.9	20 15	649 182	125 052
54	3	4	1 674.11	.19	4	100 446.1	20 20	651 941	130 744
73 55	31.003	55	1 705.11	1860.20	55	102 306.3	25 00	792 726	167 831
56	3	6	1 736.11	.20	6	104 166.5	25 05	795 485	173 523
57	3	7	1 767.12	.20	7	106 026.7	25 10	798 244	179 215
58	3	8	1 798.12	.21	8	107 886.9	25 15	801 003	184 907
59	3	9	1 829.12	.21	9	109 747.1	25 20	803 762	190 599
73 60	31.004	60	1 860.12	1860.21	60	111 607.3	30 00	939 029	240 134

Lat.	Latitude 74° to 75°—Meridional arcs						Latitude 74°—Coordinates of curvature for the polyconic projection		
	Value of 1''		Sums of seconds for middle latitude 74°30'	Value of 1'		Continuous sums of minutes from latitude 74°00'	Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	° '	Meters	Meters
74 00	31.004			1860.21			0 1	513.0	0.1
1	4	1	31.00	.21	1	860.2	2	1 026.0	0.3
2	4	2	62.01	.22	2	3 720.4	3	1 539.0	0.6
3	4	3	93.01	.22	3	5 580.6	4	2 052.0	1.1
4	4	4	124.02	.22	4	7 440.9			
74 05	31.004	5	155.02	1860.23	5	9 301.1	0 5	2 565.1	1.8
6	4	6	186.03	.23	6	11 161.3	6	3 078.1	2.6
7	4	7	217.03	.23	7	13 021.5	7	3 591.1	3.5
8	4	8	248.04	.23	8	14 881.8	8	4 104.1	4.6
9	4	9	279.04	.24	9	16 742.0	9	4 617.1	5.8
74 10	31.004	10	310.05	1860.24	10	18 602.3	0 10	5 130.1	7.2
11	4	1	341.05	.24	1	20 462.5	15	7 695.1	16.1
12	4	2	372.06	.25	2	22 322.7	20	10 260.1	28.7
13	4	3	403.06	.25	3	24 183.0	25	12 825.1	44.8
14	4	4	434.07	.25	4	26 043.2	30	15 390.1	64.5
74 15	31.004	15	465.07	1860.25	15	27 903.5	0 35	17 955.0	87.9
16	4	6	496.08	.26	6	29 763.7	40	20 519.9	114.8
17	4	7	527.08	.26	7	31 624.0	45	23 084.8	145.2
18	4	8	558.09	.26	8	33 484.3	50	25 649.6	179.3
19	4	9	589.09	.27	9	35 344.5	55	28 214.4	217.0
74 20	31.004	20	620.10	1860.27	20	37 204.8	1 00	30 779.1	258.2
21	5	1	651.10	.27	1	39 065.1	05	33 343.8	303.0
22	5	2	682.11	.27	2	40 925.3	10	35 908.4	351.4
23	5	3	713.11	.28	3	42 785.6	15	38 472.9	403.4
24	5	4	744.12	.28	4	44 645.9	20	41 037.3	459.0
74 25	31.005	25	775.12	1860.28	25	46 506.2	1 25	43 601.7	518.2
26	5	6	806.13	.29	6	48 366.5	30	46 166.0	580.9
27	5	7	837.13	.29	7	50 226.8	35	48 730.1	647.3
28	5	8	868.14	.29	8	52 087.0	40	51 294.2	717.2
29	5	9	899.14	.29	9	53 947.3	45	53 858.2	790.7
74 30	31.005	30	930.15	1860.30	30	55 807.6	1 50	56 422.1	867.8
31	5	1	961.15	.30	1	57 667.9	55	58 985.9	948.5
32	5	2	992.16	.30	2	59 528.2	2 00	61 550	1 033
33	5	3	1 023.16	.31	3	61 388.5	3 00	64 115	1 118
34	5	4	1 054.17	.31	4	63 248.8	4 00	66 680	1 203
74 35	31.005	35	1 085.17	1860.31	35	65 109.2	5 00	69 245	1 288
36	5	6	1 116.18	.31	6	66 969.5	6 00	71 810	1 373
37	5	7	1 147.18	.32	7	68 829.8	7 00	74 375	1 458
38	5	8	1 178.19	.32	8	70 690.1	8 00	76 940	1 543
39	5	9	1 209.19	.32	9	72 550.4	9 00	79 505	1 628
74 40	31.005	40	1 240.20	1860.33	40	74 410.8	10 00	82 070	1 713
41	5	1	1 271.20	.33	1	76 271.1	11 00	84 635	1 798
42	6	2	1 302.21	.33	2	78 131.4	12 00	87 200	1 883
43	6	3	1 333.21	.33	3	79 991.7	13 00	89 765	1 968
44	6	4	1 364.22	.34	4	81 852.1	14 00	92 330	2 053
74 45	31.006	45	1 395.22	1860.34	45	83 712.4	15 00	94 895	2 138
46	6	6	1 426.23	.34	6	85 572.8	16 00	97 460	2 223
47	6	7	1 457.23	.35	7	87 433.1	17 00	100 025	2 308
48	6	8	1 488.24	.35	8	89 293.5	18 00	102 590	2 393
49	6	9	1 519.24	.35	9	91 153.8	19 00	105 155	2 478
74 50	31.006	50	1 550.25	1860.35	50	93 014.2	20 00	107 720	2 563
51	6	1	1 581.25	.36	1	94 874.5	21 00	110 285	2 648
52	6	2	1 612.26	.36	2	96 734.9	22 00	112 850	2 733
53	6	3	1 643.26	.36	3	98 595.2	23 00	115 415	2 818
54	6	4	1 674.27	.37	4	100 455.6	24 00	117 980	2 903
74 55	31.006	55	1 705.27	1860.37	55	102 316.0	25 00	120 545	2 988
56	6	6	1 736.28	.37	6	104 176.3	26 00	123 110	3 073
57	6	7	1 767.28	.37	7	106 036.7	27 00	125 675	3 158
58	6	8	1 798.29	.38	8	107 897.1	28 00	128 240	3 243
59	6	9	1 829.29	.38	9	109 757.5	29 00	130 805	3 328
74 60	31.006	60	1 860.30	1860.38	60	111 617.9	30 00	133 370	3 413

Latitude 75° to 76°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
75 00	8.029	16.06	24.09	32.11	40.14	48.17	56.20	64.23	72.26	481.7	963.4	1445.2	1926.9	2408.6
1	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.4	3.6	4.8	6.0
2	.011	.02	.03	.04	.06	.07	.08	.09	.10	0.7	1.4	2.0	2.7	3.4
3	8.003	6.01	4.01	2.01	40.01	8.02	6.02	4.02	2.02	80.2	60.3	40.5	20.6	400.8
4	7.994	5.99	3.98	1.98	39.97	7.96	5.96	3.95	1.95	79.6	59.3	38.9	18.5	398.2
75 05	7.985	15.97	23.96	31.94	39.92	47.91	55.89	63.88	71.87	479.1	958.2	1437.3	1916.4	2395.5
6	.976	.95	.93	.91	.88	.86	.83	.81	.79	8.6	7.2	5.8	4.3	2.9
7	.968	.94	.90	.87	.84	.81	.77	.74	.71	8.1	6.1	4.2	2.2	90.3
8	.959	.92	.88	.84	.80	.75	.71	.67	.63	7.5	5.1	2.6	10.2	87.7
9	.950	.90	.85	.80	.75	.70	.65	.60	.55	7.0	4.0	31.0	08.1	5.1
75 10	7.942	15.88	23.82	31.77	39.71	47.65	55.59	63.53	71.47	476.5	953.0	1429.5	1906.0	2382.5
11	.933	.87	.80	.73	.66	.60	.53	.46	.39	6.0	1.9	7.9	3.9	79.8
12	.924	.85	.77	.70	.62	.54	.47	.39	.32	5.4	50.9	6.3	901.8	7.2
13	.915	.83	.75	.66	.58	.49	.41	.32	.24	4.9	49.8	4.8	899.7	4.6
14	.907	.81	.72	.63	.53	.44	.35	.25	.16	4.4	8.8	3.2	7.6	2.0
75 15	7.898	15.80	23.69	31.59	39.49	47.39	55.29	63.18	71.08	473.9	947.8	1421.6	1895.5	2369.4
16	.889	.78	.67	.56	.45	.34	.22	.11	1.00	3.4	6.7	20.1	3.4	6.8
17	.880	.76	.64	.52	.40	.28	.16	3.04	0.92	2.8	5.7	18.5	91.3	4.1
18	.872	.74	.61	.49	.36	.23	.10	2.97	.85	2.3	4.6	6.9	89.2	61.5
19	.863	.73	.59	.45	.31	.18	5.04	.90	.77	1.8	3.6	5.3	7.1	58.9
75 20	7.854	15.71	23.56	31.42	39.27	47.13	54.98	62.83	70.69	471.3	942.5	1413.8	1885.0	2356.3
21	.846	.69	.54	.38	.23	.07	.92	.76	.61	0.7	1.5	2.2	2.9	3.7
22	.837	.67	.51	.35	.18	7.02	.86	.69	.53	70.2	40.4	10.6	80.8	51.1
23	.828	.66	.48	.31	.14	6.97	.80	.62	.45	69.7	39.4	09.1	78.8	48.4
24	.819	.64	.46	.28	.10	.92	.74	.55	.37	9.2	8.3	7.5	6.7	5.8
75 25	7.811	15.62	23.43	31.24	39.05	46.86	54.67	62.49	70.30	468.6	937.3	1405.9	1874.6	2343.2
26	.802	.60	.41	.21	9.01	.81	.61	.42	.22	8.1	6.2	4.3	2.5	40.6
27	.793	.59	.38	.17	8.97	.76	.55	.35	.14	7.6	5.2	2.8	70.4	38.0
28	.784	.57	.35	.14	.92	.71	.49	.28	70.06	7.1	4.1	401.2	68.3	5.3
29	.776	.55	.33	.10	.88	.65	.43	.21	69.98	6.5	3.1	399.6	6.2	2.7
75 30	7.767	15.53	23.30	31.07	38.84	46.60	54.37	62.14	69.90	466.0	932.0	1398.1	1864.1	2330.1
31	.758	.52	.27	.03	.79	.55	.31	.07	.82	5.5	31.0	6.5	62.0	27.5
32	.750	.50	.25	1.00	.75	.50	.25	2.00	.74	5.0	29.9	4.9	59.9	4.9
33	.741	.48	.22	0.96	.70	.44	.19	1.93	.67	4.4	8.9	3.3	7.8	22.2
34	.732	.46	.20	.93	.66	.39	.12	.86	.59	3.9	7.3	1.8	5.7	19.6
75 35	7.723	15.45	23.17	30.89	38.62	46.34	54.06	61.79	69.51	463.4	926.8	1390.2	1853.6	2317.0
36	.715	.43	.14	.86	.57	.29	4.00	.72	.43	2.9	5.8	88.6	51.5	4.4
37	.706	.41	.12	.82	.53	.24	3.94	.65	.35	2.4	4.7	7.1	49.4	11.8
38	.697	.39	.09	.79	.49	.18	.88	.58	.28	1.8	3.7	5.5	7.3	09.1
39	.688	.38	.07	.75	.44	.13	.82	.51	.20	1.3	2.6	3.9	5.2	6.5
75 40	7.680	15.36	23.04	30.72	38.40	46.08	53.76	61.44	69.12	460.8	921.6	1382.3	1843.1	2303.9
41	.671	.34	3.01	.68	.36	6.03	.70	.37	9.04	60.3	20.5	80.8	41.0	301.3
42	.662	.32	2.99	.65	.31	5.97	.64	.30	8.96	59.7	19.5	79.2	38.9	298.7
43	.653	.31	.96	.61	.27	.92	.57	.23	.88	9.2	8.4	7.6	6.8	6.0
44	.645	.29	.93	.58	.22	.87	.51	.16	.80	8.7	7.4	6.0	4.7	3.4
75 45	7.636	15.27	22.91	30.54	38.18	45.82	53.45	61.09	68.72	458.2	916.3	1374.5	1832.6	2290.8
46	.627	.25	.88	.51	.14	.76	.39	1.02	.65	7.6	5.3	2.9	30.5	88.2
47	.618	.24	.86	.47	.09	.71	.33	0.95	.57	7.1	4.2	71.3	28.4	5.5
48	.610	.22	.83	.44	.05	.66	.27	.88	.49	6.6	3.2	69.8	6.3	2.9
49	.601	.20	.80	.40	8.00	.61	.21	.81	.41	6.1	2.1	8.2	4.2	80.3
75 50	7.592	15.18	22.78	30.37	37.96	45.55	53.15	60.74	68.33	455.5	911.1	1366.6	1822.1	2277.7
51	.583	.17	.75	.33	.92	.50	.08	.67	.25	5.0	10.0	5.0	20.0	5.0
52	.575	.15	.72	.30	.87	.45	3.02	.60	.17	4.5	09.0	3.5	17.9	72.4
53	.566	.13	.70	.26	.83	.40	2.96	.53	.09	4.0	7.9	1.9	5.8	69.8
54	.557	.11	.67	.23	.79	.34	.90	.46	8.02	3.4	6.9	60.3	3.7	7.2
75 55	7.548	15.10	22.65	30.19	37.74	45.29	52.84	60.39	67.94	452.9	905.8	1358.7	1811.6	2264.5
56	.540	.08	.62	.16	.70	.24	.78	.32	.86	2.4	4.8	7.2	09.5	61.9
57	.531	.06	.59	.12	.65	.19	.72	.25	.78	1.9	3.7	5.6	7.4	59.3
58	.522	.04	.57	.09	.61	.13	.65	.18	.70	1.3	2.7	4.0	5.3	6.7
59	.513	.03	.54	.05	.57	.08	.59	.11	.62	0.8	1.6	2.4	3.2	4.0
75 60	7.505	15.01	22.51	30.02	37.52	45.03	52.53	60.04	67.54	450.3	900.6	1350.9	1801.1	2251.4

Lat.	Latitude 75° to 76°—Meridional arcs						Latitude 75°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 75°30'		Value of 1'	Continuous sums of minutes from latitude 75°00'		Longitude	X	Y
	<i>Meters</i>	"	<i>Meters</i>	<i>Meters</i>	'	<i>Meters</i>	° '	<i>Meters</i>	<i>Meters</i>
75 00	31.006			1860.38			0 1		
1	6	1	31.01	.38	1	1 860.4	0 1	481.7	0.1
2	6	2	62.02	.39	2	3 720.8	0 2	963.4	0.3
3	6	3	93.02	.39	3	5 581.2	0 3	1 445.2	0.6
4	7	4	124.03	.39	4	7 441.5	0 4	1 926.9	1.1
75 05	31.007	5	155.04	1860.40	5	9 301.9	0 5	2 408.6	1.7
6	7	6	186.05	.40	6	11 162.3	0 6	2 890.3	2.4
7	7	7	217.05	.40	7	13 022.7	0 7	3 372.1	3.3
8	7	8	248.06	.40	8	14 883.1	0 8	3 853.8	4.3
9	7	9	279.07	.41	9	16 743.5	0 9	4 335.5	5.5
75 10	31.007	10	310.08	1860.41	10	18 604.0	0 10	4 817.2	6.8
11	7	1	341.08	.41	1	20 464.4	0 15	7 225.8	15.2
12	7	2	372.09	.41	2	22 324.8	0 20	9 634.4	27.1
13	7	3	403.10	.42	3	24 185.2	0 25	12 043.0	42.3
14	7	4	434.11	.42	4	26 045.6	0 30	14 451.5	60.9
75 15	31.007	15	465.12	1860.42	15	27 906.0	0 35	16 860.0	82.9
16	7	6	496.12	.43	6	29 766.5	0 40	19 268.5	108.3
17	7	7	527.13	.43	7	31 626.9	0 45	21 676.9	137.0
18	7	8	558.14	.43	8	33 487.3	0 50	24 085.3	169.2
19	7	9	589.15	.43	9	35 347.8	0 55	26 493.7	204.7
75 20	31.007	20	620.15	1860.44	20	37 208.2	1 00	28 902.0	243.6
21	7	1	651.16	.44	1	39 068.6	1 05	31 310.2	285.9
22	7	2	682.17	.44	2	40 929.1	1 10	33 718.4	331.6
23	7	3	713.18	.44	3	42 789.5	1 15	36 126.5	380.7
24	7	4	744.19	.45	4	44 650.0	1 20	38 534.5	433.1
75 25	31.007	25	775.19	1860.45	25	46 510.4	1 25	40 942.5	489.0
26	8	6	806.20	.45	6	48 370.9	1 30	43 350.4	548.1
27	8	7	837.21	.46	7	50 231.3	1 35	45 758.2	610.7
28	8	8	868.22	.46	8	52 091.8	1 40	48 165.9	676.7
29	8	9	899.22	.46	9	53 952.2	1 45	50 573.5	746.1
75 30	31.008	30	930.23	1860.46	30	55 812.7	1 50	52 981.0	818.8
31	8	1	961.24	.47	1	57 673.2	1 55	55 388.4	894.9
32	8	2	992.25	.47	2	59 533.6	2 00	57 796	975
33	8	3	1 023.25	.47	3	61 394.1	2 05	59 903.5	1059.5
34	8	4	1 054.26	.47	4	63 254.6	2 10	62 011.0	1145.0
75 35	31.008	35	1 085.27	1860.48	35	65 115.0	5 00	144 346	6 087
36	8	6	1 116.28	.48	6	66 975.5	6 00	173 124	8 763
37	8	7	1 147.29	.48	7	68 836.0	7 00	201 854	11 924
38	8	8	1 178.29	.48	8	70 696.5	8 00	230 526	15 569
39	8	9	1 209.30	.49	9	72 557.0	9 00	259 133	19 697
75 40	31.008	40	1 240.31	1860.49	40	74 417.5	10 00	287 666	24 306
41	8	1	1 271.32	.49	1	76 278.0	11 00	316 117	29 395
42	8	2	1 302.32	.50	2	78 138.4	12 00	344 479	34 964
43	8	3	1 333.33	.50	3	79 998.9	13 00	372 742	41 010
44	8	4	1 364.34	.50	4	81 859.4	14 00	400 900	47 531
75 45	31.008	45	1 395.35	1860.50	45	83 719.9	15 00	428 944	54 526
46	8	6	1 426.36	.51	6	85 580.5	16 00	456 866	61 993
47	8	7	1 457.36	.51	7	87 441.0	17 00	484 658	69 930
48	9	8	1 488.37	.51	8	89 301.5	18 00	512 312	78 334
49	9	9	1 519.38	.51	9	91 162.0	19 00	539 821	87 203
75 50	31.009	50	1 550.39	1860.52	50	93 022.5	20 00	567 176	96 534
51	9	1	1 581.39	.52	1	94 883.0	21 00	594 370	106 325
52	9	2	1 612.40	.52	2	96 743.6	22 00	621 395	116 574
53	9	3	1 643.41	.52	3	98 604.1	23 00	648 243	127 276
54	9	4	1 674.42	.53	4	100 464.6	24 00	674 907	138 430
75 55	31.009	55	1 705.42	1860.53	55	102 325.1	25 00	701 380	150 031
56	9	6	1 736.43	.53	6	104 185.7	26 00	727 653	162 077
57	9	7	1 767.44	.53	7	106 046.2	27 00	753 719	174 564
58	9	8	1 798.45	.54	8	107 906.7	28 00	779 571	187 489
59	9	9	1 829.46	.54	9	109 767.3	29 00	805 203	200 848
75 60	31.009	60	1 860.46	1860.54	60	111 627.8	30 00	830 604	214 637

Latitude 76° to 77°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
76 00	7.505	15.01	22.51	30.02	37.52	45.03	52.53	60.04	67.54	450.3	900.6	1350.9	1801.1	2251.4
1	.496	4.99	.49	29.98	.48	4.98	.47	59.97	.46	49.8	899.5	49.3	799.0	48.8
2	.487	.97	.46	.95	.44	.92	.41	.90	.38	9.2	8.5	7.7	6.9	6.2
3	.478	.96	.43	.91	.39	.87	.35	.83	.30	8.7	7.4	6.1	4.8	3.5
4	.470	.94	.41	.88	.35	.82	.29	.76	.23	8.2	6.4	4.5	2.7	40.9
76 05	7.461	14.92	22.38	29.84	37.30	44.77	52.23	59.69	67.15	447.7	895.3	1343.0	1790.6	2238.3
6	.452	.90	.36	.81	.26	.71	.16	.62	7.07	7.1	4.3	41.4	88.5	5.7
7	.443	.89	.33	.77	.22	.66	.10	.55	6.99	6.6	3.2	39.8	6.4	3.0
8	.435	.87	.30	.74	.17	.61	2.04	.48	.91	6.1	2.2	8.2	4.3	30.4
9	.426	.85	.28	.70	.13	.56	1.98	.41	.83	5.6	1.1	6.7	2.2	27.8
76 10	7.417	14.83	22.25	29.67	37.09	44.50	51.92	59.34	66.75	445.0	890.1	1335.1	1780.1	2225.2
11	.408	.82	.22	.63	.04	.45	.86	.27	.67	4.5	89.0	3.5	78.0	22.5
12	.400	.80	.20	.60	7.00	.40	.80	.20	.60	4.0	8.0	1.9	5.9	19.9
13	.391	.78	.17	.56	6.96	.35	.74	.13	.52	3.5	6.9	30.4	3.8	7.3
14	.382	.76	.15	.53	.91	.29	.67	9.06	.44	2.9	5.9	28.8	71.7	4.6
76 15	7.373	14.75	22.12	29.49	36.87	44.24	51.61	58.99	66.36	442.4	884.8	1327.2	1769.6	2212.0
16	.365	.73	.09	.46	.82	.19	.55	.92	.28	1.9	3.8	5.6	7.5	09.4
17	.356	.71	.07	.42	.78	.14	.49	.85	.20	1.4	2.7	4.1	5.4	6.8
18	.347	.69	.04	.39	.74	.08	.43	.78	.12	0.8	1.6	2.5	3.3	4.1
19	.338	.68	2.02	.35	.69	4.03	.37	.71	6.05	40.3	80.6	20.9	61.2	201.5
76 20	7.330	14.66	21.99	29.32	36.65	43.98	51.31	58.64	65.97	439.8	879.5	1319.3	1759.1	2198.9
21	.321	.64	.96	.28	.60	.92	.24	.57	.89	9.2	8.5	7.7	7.0	6.2
22	.312	.62	.94	.25	.56	.87	.18	.50	.81	8.7	7.4	6.2	4.9	3.6
23	.303	.61	.91	.21	.52	.82	.12	.43	.73	8.2	6.4	4.6	2.8	91.0
24	.295	.59	.88	.18	.47	.77	.06	.36	.65	7.7	5.3	3.0	50.7	88.4
76 25	7.286	14.57	21.86	29.14	36.43	43.71	51.00	58.29	65.57	437.1	874.3	1311.4	1748.6	2185.7
26	.277	.55	.83	.11	.39	.66	0.94	.22	.49	6.6	3.2	09.9	6.5	3.1
27	.268	.54	.81	.07	.34	.61	.88	.15	.42	6.1	2.2	8.3	4.4	80.5
28	.259	.52	.78	.04	.30	.56	.81	.08	.34	5.6	1.1	6.7	2.3	77.8
29	.251	.50	.75	9.00	.25	.50	.75	8.01	.26	5.0	70.1	5.1	40.2	5.2
76 30	7.242	14.48	21.73	28.97	36.21	43.45	50.69	57.94	65.18	434.5	869.0	1303.5	1738.1	2172.6
31	.233	.47	.70	.93	.17	.40	.63	.86	.10	4.0	8.0	2.0	5.9	69.9
32	.224	.45	.67	.90	.12	.35	.57	.79	5.02	3.5	6.9	300.4	3.8	7.3
33	.216	.43	.65	.86	.08	.29	.51	.73	4.94	2.9	5.9	298.8	31.7	4.7
34	.207	.41	.62	.83	6.03	.24	.45	.65	.86	2.4	4.8	7.2	29.6	62.0
76 35	7.198	14.40	21.59	28.79	35.99	43.19	50.39	57.58	64.78	431.9	863.8	1295.6	1727.5	2159.4
36	.189	.38	.57	.76	.95	.14	.32	.51	.70	1.4	2.7	4.1	5.4	6.8
37	.180	.36	.54	.72	.90	.08	.26	.44	.62	0.8	1.7	2.5	3.3	4.1
38	.172	.34	.51	.69	.86	3.03	.20	.37	.55	30.3	60.6	90.9	21.2	51.5
39	.163	.33	.49	.65	.81	2.98	.14	.30	.47	29.8	59.6	89.3	19.1	48.9
76 40	7.154	14.31	21.46	28.62	35.77	42.92	50.08	57.23	64.39	429.2	858.5	1287.7	1717.0	2146.2
41	.145	.29	.44	.58	.73	.87	50.02	.16	.31	8.7	7.4	6.2	4.9	3.6
42	.137	.27	.41	.55	.68	.82	49.96	.09	.23	8.2	6.4	4.6	2.8	41.0
43	.128	.26	.38	.51	.64	.77	.89	7.02	.15	7.7	5.3	3.0	10.7	38.3
44	.119	.24	.36	.48	.59	.71	.83	6.95	4.07	7.1	4.3	81.4	08.6	5.7
76 45	7.110	14.22	21.33	28.44	35.55	42.66	49.77	56.88	63.99	426.6	853.2	1279.8	1706.5	2133.1
46	.101	.20	.30	.41	.51	.61	.71	.81	.91	6.1	2.2	8.3	4.5	30.4
47	.093	.19	.28	.37	.46	.56	.65	.74	.83	5.6	1.1	6.7	2.2	27.8
48	.084	.17	.25	.34	.42	.50	.59	.67	.76	5.0	50.1	5.1	700.1	5.2
49	.075	.15	.23	.30	.37	.45	.52	.60	.68	4.5	49.0	3.5	698.0	22.5
76 50	7.066	14.13	21.20	28.27	35.33	42.40	49.46	56.53	63.60	424.0	848.0	1271.9	1695.9	2119.9
51	.058	.12	.17	.23	.29	.35	.40	.46	.52	3.5	6.9	70.4	3.8	7.3
52	.049	.10	.15	.20	.24	.29	.34	.39	.44	2.9	5.9	68.8	91.7	4.6
53	.040	.08	.12	.16	.20	.24	.28	.32	.36	2.4	4.8	7.2	89.6	12.0
54	.031	.06	.09	.13	.16	.19	.22	.25	.28	1.9	3.7	5.6	7.5	09.4
76 55	7.022	14.04	21.07	28.09	35.11	42.13	49.16	56.18	63.20	421.3	842.7	1264.0	1685.4	2106.7
56	.014	.03	.04	.05	.07	.08	.09	.11	.12	0.8	1.6	2.5	3.3	4.1
57	7.005	4.01	1.02	8.02	5.02	2.03	9.03	6.04	3.05	20.3	40.6	60.9	81.2	101.5
58	6.996	3.99	0.99	7.98	4.98	1.98	8.97	5.97	2.97	19.8	39.5	59.3	79.1	098.8
59	.987	.97	.96	.95	.94	.92	.91	.90	.89	9.2	8.5	7.7	6.9	6.2
76 60	6.978	13.96	20.94	27.91	34.89	41.87	48.85	55.83	62.81	418.7	837.4	1256.1	1674.8	2093.5

Lat.	Latitude 76° to 77°—Meridional arcs						Latitude 76°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 76°30'		Value of 1'	Continuous sums of minutes from latitude 76°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
76 00	31.009			1860.54					
1	9	1	31.01	.55	1	1 860.5	0 1	450.3	0.1
2	9	2	62.02	.55	2	3 721.1	2	900.6	0.3
3	9	3	93.03	.55	3	5 581.6	3	1 350.8	0.6
4	9	4	124.04	.55	4	7 442.2	4	1 801.1	1.0
76 05	31.009	5	155.05	1860.56	5	9 302.7	0 5	2 251.4	1.6
6	9	6	186.06	.56	6	11 163.3	6	2 701.7	2.3
7	9	7	217.07	.56	7	13 023.9	7	3 152.0	3.1
8	9	8	248.08	.56	8	14 884.4	8	3 602.3	4.1
9	9	9	279.09	.57	9	16 745.0	9	4 052.6	5.1
76 10	31.009	10	310.10	1860.57	10	18 605.6	0 10	4 502.8	6.4
11	10	1	341.11	.57	1	20 466.1	15	6 754.3	14.3
12	10	2	372.12	.57	2	22 326.7	20	9 005.7	25.4
13	0	3	403.13	.58	3	24 187.3	25	11 257.1	39.7
14	0	4	434.14	.58	4	26 047.8	30	13 508.4	57.2
76 15	31.010	15	465.15	1860.58	15	27 908.4	0 35	15 759.7	77.8
16	0	6	496.17	.58	6	29 769.0	40	18 011.0	101.7
17	0	7	527.18	.59	7	31 629.6	45	20 262.3	128.7
18	0	8	558.19	.59	8	33 490.2	50	22 513.5	158.9
19	0	9	589.20	.59	9	35 350.8	55	24 764.7	192.2
76 20	31.010	20	620.21	1860.59	20	37 211.4	1 00	27 015.8	228.8
21	0	1	651.22	.60	1	39 072.0	05	29 266.9	268.5
22	0	2	682.23	.60	2	40 932.6	10	31 517.9	311.4
23	0	3	713.24	.60	3	42 793.2	15	33 768.9	357.4
24	0	4	744.25	.60	4	44 653.8	20	36 019.8	406.7
76 25	31.010	25	775.26	1860.61	25	46 514.4	1 25	38 270.6	459.1
26	0	6	806.27	.61	6	48 375.0	30	40 521.3	514.7
27	0	7	837.28	.61	7	50 235.6	35	42 772.0	573.5
28	0	8	868.29	.61	8	52 096.2	40	45 022.6	635.4
29	0	9	899.30	.62	9	53 956.8	45	47 273.1	700.5
76 30	31.010	30	930.31	1860.62	30	55 817.4	1 50	49 523.5	768.8
31	0	1	961.32	.62	1	57 678.1	55	51 773.8	840.3
32	0	2	992.33	.62	2	59 538.7	2 00	54 024	915
33	0	3	1 023.34	.63	3	61 399.3	3 00	81 017	2 058
34	0	4	1 054.35	.63	4	63 259.9	4 00	107 986	3 659
76 35	31.011	35	1 085.36	1860.63	35	65 120.6	5 00	134 924	5 716
36	1	6	1 116.37	.63	6	66 981.2	6 00	161 824	8 228
37	1	7	1 147.38	.64	7	68 841.8	7 00	188 677	11 196
38	1	8	1 178.39	.64	8	70 702.5	8 00	215 477	14 619
39	1	9	1 209.40	.64	9	72 563.1	9 00	242 214	18 494
76 40	31.011	40	1 240.41	1860.64	40	74 423.8	10 00	268 882	22 822
41	1	1	1 271.42	.65	1	76 284.4	11 00	295 473	27 601
42	1	2	1 302.43	.65	2	78 145.1	12 00	321 979	32 829
43	1	3	1 333.44	.65	3	80 005.7	13 00	348 393	38 505
44	1	4	1 364.45	.65	4	81 866.4	14 00	374 706	44 628
76 45	31.011	45	1 395.46	1860.66	45	83 727.0	15 00	400 913	51 196
46	1	6	1 426.47	.66	6	85 587.7	16 00	427 004	58 207
47	1	7	1 457.49	.66	7	87 448.3	17 00	452 973	65 658
48	1	8	1 488.50	.66	8	89 309.0	18 00	478 812	73 547
49	1	9	1 519.51	.67	9	91 169.7	19 00	504 514	81 874
76 50	31.011	50	1 550.52	1860.67	50	93 030.3	20 00	530 071	90 635
51	1	1	1 581.53	.67	1	94 891.0	21 00	555 476	99 827
52	1	2	1 612.54	.67	2	96 751.7	22 00	580 722	109 448
53	1	3	1 643.55	.68	3	98 612.3	23 00	605 801	119 495
54	1	4	1 674.56	.68	4	100 473.0	24 00	630 706	129 965
76 55	31.011	55	1 705.57	1860.68	55	102 333.7	25 00	655 431	140 856
56	1	6	1 736.58	.68	6	104 194.4	26 00	679 967	152 163
57	1	7	1 767.59	.69	7	106 055.1	27 00	704 309	163 885
58	1	8	1 798.60	.69	8	107 915.8	28 00	728 449	176 017
59	2	9	1 829.61	.69	9	109 776.5	29 00	752 379	188 556
76 60	31.012	60	1 860.62	1860.69	60	111 637.1	30 00	776 094	201 498

Latitude 77° to 78°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
77 00	6.978	13.96	20.94	27.91	34.89	41.87	48.85	55.83	62.81	418.7	837.4	1256.1	1674.8	2093.5
1	.970	.94	.91	.88	.85	.82	.79	.76	.73	8.2	6.4	4.5	2.7	90.9
2	.961	.92	.86	.84	.80	.77	.73	.69	.65	7.7	5.3	3.0	70.6	88.3
3	.952	.90	.88	.81	.76	.71	.66	.62	.57	7.1	4.3	51.4	68.5	5.6
4	.943	.89	.83	.77	.72	.66	.60	.55	.49	6.6	3.2	49.8	6.4	3.0
77 05	6.935	13.87	20.80	27.74	34.67	41.61	48.54	55.48	62.41	416.1	832.1	1248.2	1664.3	2080.4
6	.926	.85	.78	.70	.63	.55	.48	.40	.33	5.5	1.1	6.6	2.2	77.7
7	.917	.83	.75	.67	.58	.50	.42	.34	.25	5.0	30.0	5.0	60.1	5.1
8	.908	.82	.72	.63	.54	.45	.36	.26	.17	4.5	29.0	3.5	58.0	72.4
9	.899	.80	.70	.60	.50	.40	.29	.19	.09	4.0	7.9	1.9	5.8	69.8
77 10	6.891	13.78	20.67	27.56	34.45	41.34	48.23	55.12	62.01	413.4	826.9	1240.3	1653.7	2067.2
11	.882	.76	.64	.53	.41	.29	.17	5.05	1.94	2.9	5.8	38.7	51.6	4.5
12	.873	.75	.62	.49	.36	.24	.11	4.98	.86	2.4	4.8	7.1	49.5	61.9
13	.864	.73	.59	.46	.32	.18	8.05	.91	.78	1.8	3.7	5.5	7.4	59.2
14	.855	.71	.57	.42	.28	.13	7.99	.84	.70	1.3	2.6	4.0	5.3	6.6
77 15	6.847	13.69	20.54	27.39	34.23	41.08	47.93	54.77	61.62	410.8	821.6	1232.4	1643.2	2054.0
16	.838	.68	.51	.35	.19	1.03	.86	.70	.54	10.3	20.5	30.8	41.1	51.3
17	.829	.66	.49	.32	.14	0.97	.80	.63	.46	9.7	19.5	29.2	38.9	48.7
18	.820	.64	.46	.28	.10	.92	.74	.56	.38	9.2	8.4	7.6	6.8	6.0
19	.811	.62	.43	.25	.06	.87	.68	.49	.30	8.7	7.4	6.0	4.7	3.4
77 20	6.803	13.61	20.41	27.21	34.01	40.82	47.62	54.42	61.22	408.2	816.3	1224.5	1632.6	2040.8
21	.794	.59	.38	.17	3.97	.76	.56	.35	.14	7.6	5.2	2.9	30.5	38.1
22	.785	.57	.36	.14	.92	.71	.50	.28	1.06	7.1	4.2	21.3	28.4	5.5
23	.776	.55	.33	.10	.88	.66	.43	.21	0.98	6.6	3.1	19.7	6.3	2.8
24	.767	.53	.30	.07	.84	.60	.37	.14	.91	6.0	2.1	8.1	4.2	30.2
77 25	6.759	13.52	20.28	27.03	33.79	40.55	47.31	54.07	60.83	405.5	811.0	1216.5	1622.1	2027.6
26	.750	.50	.25	7.00	.75	.50	.25	4.00	.75	5.0	10.0	5.0	19.9	4.9
27	.741	.48	.22	6.96	.70	.45	.19	3.93	.67	4.5	08.9	3.4	7.8	22.3
28	.732	.46	.20	.95	.66	.39	.12	.86	.59	3.9	7.9	1.8	5.7	19.6
29	.723	.45	.17	.89	.62	.34	.06	.79	.51	3.4	6.8	10.2	3.6	7.0
77 30	6.715	13.43	20.14	26.86	33.57	40.29	47.00	53.72	60.43	402.9	805.7	1208.6	1611.5	2014.4
31	.706	.41	.12	.82	.53	.23	6.94	.65	.35	2.3	4.7	7.0	09.4	11.7
32	.697	.39	.09	.79	.48	.18	.88	.58	.27	1.8	3.6	5.4	7.3	09.1
33	.688	.38	.06	.75	.44	.13	.82	.50	.19	1.3	2.6	3.9	5.1	6.4
34	.679	.36	.04	.72	.40	.08	.75	.43	.11	0.8	1.5	2.3	3.0	3.8
77 35	6.670	13.34	20.01	26.68	33.35	40.02	46.69	53.36	60.03	400.2	800.5	1200.7	1600.9	2001.1
36	.662	.32	19.98	.65	.31	39.97	.63	.29	59.96	399.7	799.4	199.1	598.8	1988.5
37	.653	.31	.96	.61	.26	.92	.57	.22	.88	9.2	8.3	7.5	6.7	5.9
38	.644	.29	.93	.58	.22	.86	.51	.15	.80	8.6	7.3	5.9	4.6	3.2
39	.635	.27	.91	.54	.18	.81	.45	.08	.72	8.1	6.2	4.3	2.5	90.6
77 40	6.626	13.25	19.88	26.51	33.13	39.76	46.38	53.01	59.64	397.6	795.2	1192.8	1590.3	1987.9
41	.618	.24	.85	.47	.09	.71	.32	2.94	.56	7.1	4.1	91.2	88.2	5.3
42	.609	.22	.83	.43	.04	.65	.26	.87	.48	6.5	3.0	89.6	6.1	2.6
43	.600	.20	.80	.40	3.00	.60	.20	.80	.40	6.0	2.0	8.0	4.0	80.0
44	.591	.18	.77	.36	2.95	.55	.14	.73	.32	5.5	90.9	6.4	81.9	77.3
77 45	6.582	13.16	19.75	26.33	32.91	39.49	46.07	52.66	59.24	394.9	789.9	1184.8	1579.8	1974.7
46	.574	.15	.72	.29	.87	.44	6.01	.59	.16	4.4	8.8	3.2	7.6	72.1
47	.565	.13	.69	.26	.82	.39	5.95	.52	.08	3.9	7.8	1.6	5.5	69.4
48	.556	.11	.66	.22	.78	.34	.89	.45	9.00	3.4	6.7	80.1	3.4	6.8
49	.547	.09	.64	.19	.73	.28	.83	.38	8.92	2.8	5.6	78.5	71.3	4.1
77 50	6.538	13.08	19.61	26.15	32.69	39.23	45.77	52.31	58.84	392.3	784.6	1176.9	1569.2	1961.5
51	.529	.06	.59	.12	.65	.18	.71	.24	.76	1.8	3.5	5.3	7.1	58.8
52	.521	.04	.56	.08	.60	.12	.64	.17	.68	1.2	2.5	3.7	4.9	6.2
53	.512	.02	.53	.05	.56	.07	.58	.09	.60	0.7	1.4	2.1	2.8	3.5
54	.503	3.01	.51	6.01	.51	9.02	.52	2.02	.53	90.2	80.4	70.5	60.7	50.9
77 55	6.494	12.99	19.48	25.98	32.47	38.96	45.46	51.95	58.45	389.6	779.3	1168.9	1558.6	1948.2
56	.485	.97	.46	.94	.43	.91	.40	.88	.37	9.1	8.2	7.4	6.5	5.6
57	.477	.95	.43	.91	.38	.86	.34	.81	.29	8.6	7.2	5.8	4.4	3.0
58	.468	.94	.40	.87	.34	.81	.27	.74	.21	8.1	6.1	4.2	2.2	40.3
59	.459	.92	.38	.84	.29	.75	.21	.67	.13	7.5	5.1	2.6	50.1	37.7
77 60	6.450	12.90	19.35	25.80	32.25	38.70	45.15	51.60	58.05	387.0	774.0	1161.0	1548.0	1935.0

Lat.	Latitude 77° to 78°—Meridional arcs						Latitude 77°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 77°30'		Value of 1'	Continuous sums of minutes from latitude 77°00'		Longitude	X	Y
° ' /	Meters	''	Meters	Meters	'	Meters	° ' /	Meters	Meters
77 00	31.012			1860.69			0 1		
1	2	1	31.01	.70	1	860.7	0 1	418.7	0.1
2	2	2	62.03	.70	2	1721.4	0 2	837.4	0.2
3	2	3	93.04	.70	3	2582.1	0 3	1256.1	0.5
4	2	4	124.05	.70	4	3442.8	0 4	1674.8	0.9
77 05	31.012	5	155.06	1860.71	5	9303.5	0 5	2093.5	1.5
6	2	6	186.08	.71	6	11164.2	0 6	2512.3	2.1
7	2	7	217.09	.71	7	13024.9	0 7	2931.0	2.9
8	2	8	248.10	.71	8	14885.6	0 8	3349.7	3.8
9	2	9	279.11	.71	9	16746.3	0 9	3768.4	4.8
77 10	31.012	10	310.13	1860.72	10	18607.1	0 10	4187.1	5.9
11	2	1	341.14	.72	1	20467.8	0 15	6280.6	13.4
12	2	2	372.15	.72	2	22328.5	0 20	8374.1	23.7
13	2	3	403.17	.72	3	24189.2	0 25	10467.6	37.1
14	2	4	434.18	.73	4	26049.9	0 30	12561.1	53.4
77 15	31.012	15	465.19	1860.73	15	27910.7	0 35	14654.6	72.7
16	2	6	496.20	.73	6	29771.4	0 40	16748.0	94.9
17	2	7	527.22	.73	7	31632.1	0 45	18841.4	120.2
18	2	8	558.23	.74	8	33492.9	0 50	20934.8	148.3
19	2	9	589.24	.74	9	35353.6	0 55	23028.1	179.5
77 20	31.012	20	620.25	1860.74	20	37214.3	1 00	25121.4	213.6
21	2	1	651.27	.74	1	39075.1	1 05	27214.6	250.7
22	2	2	682.28	.75	2	40935.8	1 10	29307.7	290.7
23	2	3	713.29	.75	3	42796.6	1 15	31400.8	333.8
24	3	4	744.31	.75	4	44657.3	1 20	33493.9	379.7
77 25	31.013	25	775.32	1860.75	25	46518.1	1 25	35586.9	428.7
26	3	6	806.33	.76	6	48378.8	1 30	37679.8	480.6
27	3	7	837.34	.76	7	50239.6	1 35	39772.6	535.5
28	3	8	868.36	.76	8	52100.3	1 40	41865.3	593.3
29	3	9	899.37	.76	9	53961.1	1 45	43958.0	654.1
77 30	31.013	30	930.38	1860.76	30	55821.9	1 50	46050.6	717.9
31	3	1	961.40	.77	1	57682.6	1 55	48143.0	784.7
32	3	2	992.41	.77	2	59543.4	2 00	50235	854
33	3	3	1023.42	.77	3	61404.2	2 05	52327	922
34	3	4	1054.43	.77	4	63265.0	2 10	54419	992
77 35	31.013	35	1085.45	1860.78	35	65125.7	5 00	125462	5337
36	3	6	1116.46	.78	6	66986.5	6 00	150474	7684
37	3	7	1147.47	.78	7	68847.3	7 00	175486	10455
38	3	8	1178.48	.78	8	70708.1	8 00	200498	13650
39	3	9	1209.50	.79	9	72568.9	9 00	225510	17269
77 40	31.013	40	1240.51	1860.79	40	74429.6	10 00	250522	21310
41	3	1	1271.52	.79	1	76290.4	11 00	274534	25772
42	3	2	1302.54	.79	2	78151.2	12 00	298546	30654
43	3	3	1333.55	.79	3	80012.0	13 00	322558	35546
44	3	4	1364.56	.80	4	81872.8	14 00	346570	41671
77 45	31.013	45	1395.57	1860.80	45	83733.6	15 00	370582	47804
46	3	6	1426.59	.80	6	85594.4	16 00	394594	54349
47	3	7	1457.60	.80	7	87455.2	17 00	418606	61306
48	3	8	1488.61	.81	8	89316.0	18 00	442618	68263
49	3	9	1519.62	.81	9	91176.8	19 00	466630	75220
77 50	31.014	50	1550.64	1860.81	50	93037.6	20 00	490642	82177
51	4	1	1581.65	.81	1	94898.5	21 00	514654	89134
52	4	2	1612.66	.82	2	96759.3	22 00	538666	96091
53	4	3	1643.68	.82	3	98620.1	23 00	562678	103048
54	4	4	1674.69	.82	4	100480.9	24 00	586690	110005
77 55	31.014	55	1705.70	1860.82	55	102341.7	25 00	610702	117062
56	4	6	1736.71	.82	6	104202.5	26 00	634714	124019
57	4	7	1767.73	.83	7	106063.4	27 00	658726	130976
58	4	8	1798.74	.83	8	107924.2	28 00	682738	137933
59	4	9	1829.75	.83	9	109785.0	29 00	706750	144890
77 60	31.014	60	1860.76	1860.83	60	111645.9	30 00	730762	151847

Latitude 78° to 79°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
78 00	6.450	12.90	19.35	25.80	32.25	38.70	45.15	51.60	58.05	387.0	774.0	1161.0	1548.0	1935.0
1	.441	.88	.32	.77	.21	.65	.09	.53	7.97	6.5	2.9	59.4	5.9	32.4
2	.432	.86	.30	.73	.16	.59	5.03	.46	.89	5.9	1.9	7.8	3.8	29.7
3	.424	.85	.27	.69	.12	.54	4.96	.39	.81	5.4	70.8	6.2	41.7	7.1
4	.415	.83	.24	.66	.07	.49	.90	.32	.73	4.9	69.8	4.7	39.5	4.4
78 05	6.406	12.81	19.22	25.62	32.03	38.44	44.84	51.24	57.65	384.4	768.7	1153.1	1537.4	1921.8
6	.397	.79	.19	.59	1.99	.38	.78	.18	.57	3.8	7.6	51.5	5.3	19.1
7	.388	.78	.17	.55	.94	.33	.72	.11	.50	3.3	6.6	49.9	3.2	6.5
8	.379	.76	.14	.52	.90	.28	.65	1.03	.42	2.8	5.5	8.3	31.1	3.8
9	.371	.74	.11	.48	.85	.22	.59	0.96	.34	2.2	4.5	6.7	28.9	11.2
78 10	6.362	12.72	19.09	25.45	31.81	38.17	44.53	50.89	57.26	381.7	763.4	1145.1	1526.8	1908.5
11	.353	.71	.06	.41	.77	.12	.47	.82	.18	1.2	2.4	3.5	4.7	5.9
12	.344	.69	.03	.38	.72	.06	.41	.75	.10	0.6	1.3	1.9	2.6	3.2
13	.335	.67	9.01	.34	.68	8.01	.34	.68	7.02	80.1	60.2	40.4	20.5	900.6
14	.326	.65	8.98	.31	.63	7.96	.28	.61	6.94	79.6	59.2	38.8	18.3	897.9
78 15	6.318	12.64	18.95	25.27	31.59	37.91	44.22	50.54	56.86	379.1	758.1	1137.2	1516.2	1895.3
16	.309	.62	.93	.23	.54	.85	.16	.47	.78	8.5	7.1	5.6	4.1	2.6
17	.300	.60	.90	.20	.50	.80	.10	.40	.70	8.0	6.0	4.0	12.0	90.0
18	.291	.58	.87	.16	.46	.75	4.04	.33	.62	7.5	4.9	2.4	09.9	87.3
19	.282	.56	.85	.13	.41	.69	3.97	.26	.54	6.9	3.9	30.8	7.7	4.7
78 20	6.273	12.55	18.82	25.09	31.37	37.64	43.91	50.19	56.46	376.4	752.8	1129.2	1505.6	1882.0
21	.265	.53	.79	.06	.32	.59	.85	.12	.33	5.9	1.8	7.6	3.5	79.4
22	.256	.51	.77	5.02	.28	.53	.79	50.05	.30	5.3	50.7	6.0	501.4	6.7
23	.247	.49	.74	4.99	.24	.48	.73	49.98	.22	4.8	49.6	4.4	499.3	4.1
24	.238	.48	.71	.95	.19	.43	.67	.90	.14	4.3	8.6	2.9	7.1	71.4
78 25	6.229	12.46	18.69	24.92	31.15	37.38	43.60	49.83	56.06	373.8	747.5	1121.3	1495.0	1868.8
26	.220	.44	.66	.88	.10	.32	.54	.76	5.98	3.2	6.5	19.7	2.9	6.1
27	.212	.42	.64	.85	.06	.27	.48	.69	.91	2.7	5.4	8.1	90.8	3.5
28	.203	.41	.61	.81	1.01	.22	.42	.62	.83	2.2	4.3	6.5	88.7	60.8
29	.194	.39	.58	.78	0.97	.16	.36	.55	.75	1.6	3.3	4.9	6.5	53.2
78 30	6.185	12.37	18.56	24.74	30.93	37.11	43.30	49.48	55.67	371.1	742.2	1113.3	1484.4	1855.5
31	.176	.35	.53	.71	.88	.06	.23	.41	.59	0.6	1.1	1.7	2.3	2.9
32	.167	.33	.50	.67	.84	7.00	.17	.34	.51	70.0	40.1	10.1	80.2	50.2
33	.159	.32	.48	.63	.79	6.95	.11	.27	.43	69.5	39.0	08.5	78.0	47.6
34	.150	.30	.45	.60	.75	.90	3.05	.20	.35	9.0	8.0	6.9	5.9	4.9
78 35	6.141	12.28	18.42	24.56	30.71	36.85	42.99	49.13	55.27	368.5	736.9	1105.4	1473.8	1842.3
36	.132	.26	.40	.53	.66	.79	.93	9.06	.19	7.9	5.8	3.8	71.7	39.6
37	.123	.25	.37	.49	.62	.74	.86	8.98	.11	7.4	4.8	2.2	69.6	6.9
38	.114	.23	.34	.46	.57	.69	.80	.91	5.03	6.9	3.7	100.6	7.4	4.3
39	.105	.21	.32	.42	.53	.63	.74	.84	4.95	6.3	2.7	099.0	5.3	31.6
78 40	6.097	12.19	18.29	24.39	30.48	36.58	42.68	48.77	54.87	365.8	731.6	1097.4	1463.2	1829.0
41	.088	.17	.26	.35	.44	.53	.62	.70	.79	5.3	30.5	5.8	61.1	6.3
42	.079	.16	.24	.32	.39	.47	.56	.63	.71	4.7	29.5	4.2	58.9	3.7
43	.070	.14	.21	.28	.35	.42	.49	.56	.63	4.2	8.4	2.6	6.8	21.0
44	.061	.12	.18	.25	.31	.37	.43	.49	.55	3.7	7.3	91.0	4.7	18.4
78 45	6.052	12.10	18.16	24.21	30.26	36.31	42.37	48.42	54.47	363.1	726.3	1089.4	1452.6	1815.7
46	.044	.09	.13	.17	.22	.26	.31	.35	.39	2.6	5.2	7.8	50.4	3.1
47	.035	.07	.10	.14	.17	.21	.24	.28	.31	2.1	4.2	6.2	48.3	10.4
48	.026	.05	.08	.10	.13	.16	.18	.21	.23	1.6	3.1	4.7	6.2	07.8
49	.017	.03	.05	.07	.08	.10	.12	.14	.15	1.0	2.0	3.1	4.1	5.1
78 50	6.008	12.02	18.02	24.03	30.04	36.05	42.06	48.06	54.07	360.5	721.0	1081.5	1442.0	1802.4
51	5.999	2.00	8.00	4.00	30.00	6.00	2.00	7.99	3.99	60.0	19.9	79.9	39.8	799.8
52	.990	1.98	7.97	3.96	29.95	5.94	1.93	.92	.91	59.4	8.9	8.3	7.7	7.1
53	.982	.96	.94	.93	.91	.89	.87	.85	.83	8.9	7.8	6.7	5.6	4.5
54	.973	.95	.92	.89	.86	.84	.81	.78	.75	8.4	6.7	5.1	3.5	91.8
78 55	5.964	11.93	17.89	23.86	29.82	35.78	41.75	47.71	53.68	357.8	715.7	1073.5	1431.3	1789.2
56	.955	.91	.86	.82	.78	.73	.69	.64	.60	7.3	4.6	1.9	29.2	6.5
57	.946	.89	.84	.78	.73	.68	.62	.57	.52	6.8	3.5	70.3	7.1	3.9
58	.937	.87	.81	.75	.69	.62	.56	.50	.44	6.2	2.5	68.7	5.0	81.2
59	.928	.86	.79	.71	.64	.57	.50	.43	.36	5.7	1.4	7.1	2.8	78.5
78 60	5.920	11.84	17.76	23.68	29.60	35.52	41.44	47.36	53.28	355.2	710.4	1065.5	1420.7	1775.9

Lat.	Latitude 78° to 79°—Meridional arcs.					Latitude 78°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 78°30'		Value of 1'	Continuous sums of minutes from latitude 78°00'		Longitude	X	Y
		Meters	"		Meters	'			
78 00	31.014			1860.83			0 1	387.0	0.1
1	4	1	31.01	.84	1	1 860.8	0 2	774.0	0.2
2	4	2	62.03	.84	2	3 721.7	3	1 161.0	0.5
3	4	3	93.04	.84	3	5 582.5	4	1 548.0	0.9
4	4	4	124.06	.84	4	7 443.4			
78 05	31.014	5	155.07	1860.84	5	9 304.2	0 5	1 935.0	1.4
6	4	6	186.09	.85	6	11 165.0	6	2 322.0	2.0
7	4	7	217.10	.85	7	13 025.9	7	2 709.0	2.7
8	4	8	248.12	.85	8	14 886.7	8	3 096.0	3.5
9	4	9	279.13	.85	9	16 747.6	9	3 483.0	4.5
78 10	31.014	10	310.15	1860.86	10	18 608.4	0 10	3 870.0	5.5
11	4	1	341.16	.86	1	20 469.3	15	5 805.0	12.4
12	4	2	372.18	.86	2	22 330.2	20	7 740.0	22.0
13	4	3	403.19	.86	3	24 191.0	25	9 675.0	34.4
14	4	4	434.21	.86	4	26 051.9	30	11 610.0	49.6
78 15	31.014	15	465.22	1860.87	15	27 912.8	0 35	13 544.9	67.4
16	4	6	496.24	.87	6	29 773.6	40	15 479.8	88.1
17	5	7	527.25	.87	7	31 634.5	45	17 414.7	111.5
18	5	8	558.27	.87	8	33 495.4	50	19 349.5	137.6
19	5	9	589.28	.88	9	35 356.2	55	21 284.3	166.5
78 20	31.015	20	620.30	1860.88	20	37 217.1	1 00	23 219.1	198.2
21	5	1	651.31	.88	1	39 078.0	05	25 153.8	232.6
22	5	2	682.33	.88	2	40 938.9	10	27 088.4	269.8
23	5	3	713.34	.88	3	42 799.8	15	29 023.0	309.7
24	5	4	744.36	.89	4	44 660.6	20	30 957.6	352.4
78 25	31.015	25	775.37	1860.89	25	46 521.5	1 25	32 892.1	397.8
26	5	6	806.39	.89	6	48 382.4	30	34 826.5	445.9
27	5	7	837.40	.89	7	50 243.3	35	36 760.8	496.9
28	5	8	868.42	.90	8	52 104.2	40	38 695.1	550.5
29	5	9	899.43	.90	9	53 965.1	45	40 629.3	606.9
78 30	31.015	30	930.45	1860.90	30	55 826.0	1 50	42 563.4	666.1
31	5	1	961.46	.90	1	57 686.9	55	44 497.4	728.1
32	5	2	992.48	.90	2	59 547.8	2 00	46 431.7	793
33	5	3	1 023.49	.91	3	61 408.7	3 00	69 630	1 784
34	5	4	1 054.51	.91	4	63 269.6	4 00	92 809	3 170
78 35	31.015	35	1 085.52	1860.91	35	65 130.5	5 00	115 960	4 952
36	5	6	1 116.54	.91	6	66 991.4	6 00	139 078	7 129
37	5	7	1 147.55	.91	7	68 852.4	7 00	162 155	9 701
38	5	8	1 178.57	.92	8	70 713.3	8 00	185 185	12 665
39	5	9	1 209.58	.92	9	72 574.2	9 00	208 160	16 023
78 40	31.015	40	1 240.60	1860.92	40	74 435.1	10 00	231 076	19 773
41	5	1	1 271.61	.92	1	76 296.0	11 00	253 923	23 913
42	5	2	1 302.63	.93	2	78 157.0	12 00	276 697	28 442
43	5	3	1 333.64	.93	3	80 017.9	13 00	299 390	33 360
44	5	4	1 364.66	.93	4	81 878.8	14 00	321 996	38 664
78 45	31.016	45	1 395.67	1860.93	45	83 739.7	15 00	344 509	44 353
46	6	6	1 426.69	.93	6	85 600.7	16 00	366 920	50 426
47	6	7	1 457.70	.94	7	87 461.6	17 00	389 225	56 881
48	6	8	1 488.72	.94	8	89 322.6	18 00	411 416	63 715
49	6	9	1 519.73	.94	9	91 183.5	19 00	433 488	70 927
78 50	31.016	50	1 550.75	1860.94	50	93 044.4	20 00	455 433	78 515
51	6	1	1 581.76	.94	1	94 905.4	21 00	477 245	86 477
52	6	2	1 612.78	.95	2	96 766.3	22 00	498 918	94 809
53	6	3	1 643.79	.95	3	98 627.2	23 00	520 446	103 511
54	6	4	1 674.81	.95	4	100 488.2	24 00	541 822	112 579
78 55	31.016	55	1 705.82	1860.95	55	102 349.1	25 00	563 041	122 010
56	6	6	1 736.84	.95	6	104 210.1	26 00	584 095	131 802
57	6	7	1 767.85	.96	7	106 071.1	27 00	604 979	141 952
58	6	8	1 798.87	.96	8	107 932.0	28 00	625 686	152 457
59	6	9	1 829.88	.96	9	109 793.0	29 00	646 212	163 314
78 60	31.016	60	1 860.90	1860.96	60	111 653.9	30 00	666 549	174 520

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 79° to 80°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
79 00	5.920	11.84	17.76	23.68	29.60	35.52	41.44	47.36	53.28	355.2	710.4	1065.5	1420.7	1775.9
1	.911	.82	.73	.64	.55	.46	.38	.29	.20	4.6	9.3	3.9	18.6	3.2
2	.902	.80	.71	.61	.51	.41	.31	.22	.12	4.1	8.2	2.3	6.5	70.6
3	.893	.79	.68	.57	.47	.36	.25	.14	3.04	3.6	7.2	60.7	4.3	67.9
4	.884	.77	.65	.54	.42	.31	.19	.07	2.96	3.1	6.1	59.2	2.2	5.3
79 05	5.875	11.75	17.63	23.50	29.38	35.25	41.13	47.00	52.88	352.5	705.0	1057.6	1410.1	1762.6
6	.866	.73	.60	.47	.33	.20	.06	6.93	.80	2.0	4.0	6.0	08.0	59.9
7	.858	.72	.57	.43	.29	.15	1.00	.86	.72	1.5	2.9	4.4	5.8	7.3
8	.849	.70	.55	.39	.24	.09	0.94	.79	.64	0.9	1.8	2.8	3.7	4.6
9	.840	.68	.52	.36	.20	5.04	.83	.72	.56	50.4	700.8	51.2	401.6	52.0
79 10	5.831	11.66	17.49	23.32	29.16	34.99	40.82	46.65	52.48	349.9	699.7	1049.6	1399.4	1749.3
11	.822	.64	.47	.29	.11	.93	.76	.58	.40	9.3	8.7	8.0	7.3	6.7
12	.813	.63	.44	.25	.07	.88	.69	.51	.32	8.8	7.6	6.4	5.2	4.0
13	.804	.61	.41	.22	9.02	.83	.63	.43	.24	8.3	6.5	4.8	3.1	41.3
14	.796	.59	.39	.18	8.98	.77	.57	.36	.16	7.7	5.5	3.2	90.9	38.7
79 15	5.787	11.57	17.36	23.15	28.93	34.72	40.51	46.29	52.08	347.2	694.4	1041.6	1388.8	1736.0
16	.778	.56	.33	.11	.89	.67	.45	.22	2.00	6.7	3.3	40.0	6.7	3.4
17	.769	.54	.31	.08	.85	.61	.38	.15	1.92	6.1	2.3	38.4	4.6	30.7
18	.760	.52	.28	.04	.80	.56	.32	.08	.84	5.6	1.2	6.8	2.4	28.0
19	.751	.50	.25	3.01	.76	.51	.26	6.01	.76	5.1	90.2	5.2	80.3	5.4
79 20	5.742	11.48	17.23	22.97	28.71	34.45	40.20	45.94	51.68	344.5	689.1	1033.6	1378.2	1722.7
21	.734	.47	.20	.93	.67	.40	.14	.87	.60	4.0	8.0	2.0	6.0	20.1
22	.725	.45	.17	.90	.62	.35	.07	.80	.52	3.5	7.0	30.4	3.9	17.4
23	.716	.43	.15	.86	.58	.29	40.01	.73	.44	2.9	5.9	28.8	71.8	4.7
24	.707	.41	.12	.83	.53	.24	39.95	.66	.36	2.4	4.8	7.2	69.7	12.1
79 25	5.698	11.40	17.09	22.79	28.49	34.19	39.89	45.58	51.28	341.9	683.8	1025.6	1367.5	1709.4
26	.689	.38	.07	.76	.45	.14	.83	.51	.20	1.4	2.7	4.1	5.4	6.8
27	.680	.36	.04	.72	.40	.08	.76	.44	.12	0.8	1.6	2.5	3.3	4.1
28	.671	.34	7.01	.69	.36	4.03	.70	.37	1.04	40.3	80.6	20.9	61.1	701.4
29	.663	.33	6.99	.65	.31	3.98	.64	.30	0.96	39.8	79.5	19.3	59.0	698.8
79 30	5.654	11.31	16.96	22.61	28.27	33.92	39.58	45.23	50.88	339.2	678.4	1017.7	1356.9	1696.1
31	.645	.29	.93	.58	.22	.87	.51	.16	.80	8.7	7.4	6.1	4.8	3.4
32	.636	.27	.91	.54	.18	.82	.45	.09	.72	8.2	6.3	4.5	2.6	90.8
33	.627	.25	.88	.51	.14	.76	.39	5.02	.64	7.6	5.2	2.9	50.5	88.1
34	.618	.24	.85	.47	.09	.71	.33	4.94	.56	7.1	4.2	11.3	48.4	5.4
79 35	5.609	11.22	16.83	22.44	28.05	33.66	39.27	44.87	50.48	336.6	673.1	1009.7	1346.2	1682.8
36	.600	.20	.80	.40	8.00	.60	.20	.80	.40	6.0	2.1	8.1	4.1	80.1
37	.592	.18	.78	.37	7.96	.55	.14	.73	.33	5.5	71.0	6.5	42.0	77.5
38	.583	.17	.75	.33	.91	.50	.08	.66	.24	5.0	69.9	4.9	39.9	4.8
39	.574	.15	.72	.30	.87	.44	9.02	.59	.17	4.4	8.9	3.3	7.7	72.2
79 40	5.565	11.13	16.70	22.26	27.83	33.39	38.96	44.52	50.09	333.9	667.8	1001.7	1335.6	1669.5
41	.556	.11	.67	.22	.78	.34	.89	.45	50.00	3.4	6.7	1000.1	3.5	6.8
42	.547	.09	.64	.19	.74	.28	.83	.38	49.93	2.8	5.7	998.5	31.3	4.2
43	.538	.08	.62	.15	.69	.23	.77	.31	.85	2.3	4.6	6.9	29.2	61.5
44	.529	.06	.59	.12	.65	.18	.71	.23	.76	1.8	3.5	5.3	7.1	58.8
79 45	5.521	11.04	16.56	22.08	27.60	33.12	38.64	44.16	49.69	331.2	662.5	993.7	1324.9	1656.2
46	.512	.02	.54	.04	.56	.07	.58	.09	.61	0.7	1.4	2.1	2.8	3.5
47	.503	1.00	.51	2.01	.51	3.02	.52	4.02	.52	30.2	60.3	90.5	20.7	50.8
48	.494	0.99	.48	1.98	.47	2.96	.46	3.95	.45	29.6	59.3	88.9	18.5	48.2
49	.485	.97	.46	.94	.43	.91	.39	.88	.37	9.1	8.2	7.3	6.4	5.5
79 50	5.476	10.95	16.43	21.91	27.38	32.86	38.33	43.81	49.29	328.6	657.2	985.7	1314.3	1642.9
51	.467	.93	.40	.87	.34	.80	.27	.74	.21	8.0	6.1	4.1	2.2	40.2
52	.458	.92	.38	.83	.29	.75	.21	.67	.13	7.5	5.0	2.5	10.0	37.5
53	.450	.90	.35	.80	.25	.70	.14	.60	9.05	7.0	3.9	80.9	07.9	4.9
54	.441	.88	.32	.76	.20	.64	.08	.53	8.97	6.4	2.9	79.3	5.8	32.2
79 55	5.432	10.86	16.30	21.73	27.16	32.59	38.02	43.45	48.89	325.9	651.8	977.4	1303.6	1629.5
56	.423	.85	.27	.69	.12	.54	7.96	.38	.81	5.4	50.7	6.1	301.5	6.9
57	.414	.83	.24	.66	.07	.48	.90	.31	.73	4.8	49.7	4.5	299.4	4.2
58	.405	.81	.21	.62	7.03	.43	.83	.24	.65	4.3	8.6	2.9	7.2	21.5
59	.396	.79	.19	.58	6.98	.38	.77	.17	.56	3.8	7.5	71.3	5.1	18.8
79 60	5.387	10.77	16.16	21.55	26.94	32.32	37.71	43.10	48.49	323.2	646.5	969.7	1293.0	1616.2

Lat.	Latitude 79° to 80°—Meridional arcs						Latitude 79°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 79°30'		Value of 1'	Continuous sums of minutes from latitude 79°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
79 00	31. 016			1860. 96			0 1		
1	6	1	31. 02	. 97	1	1 861. 0	0 1	355. 2	0. 1
2	6	2	62. 03	. 97	2	3 721. 9	0 2	710. 3	0. 2
3	6	3	93. 05	. 97	3	5 582. 9	0 3	1 065. 5	0. 5
4	6	4	124. 07	. 97	4	7 443. 9	0 4	1 420. 7	0. 8
79 05	31. 016			1860. 97			0 5		
6	6	5	155. 09	. 98	5	9 304. 8	0 5	1 775. 9	1. 3
7	6	6	186. 10	. 98	6	11 165. 8	0 6	2 131. 1	1. 8
8	6	7	217. 12	. 98	7	13 026. 8	0 7	2 486. 2	2. 5
9	6	8	248. 14	. 98	8	14 887. 8	0 8	2 841. 4	3. 2
		9	279. 15	. 98	9	16 748. 8	0 9	3 196. 6	4. 1
79 10	31. 016			1860. 98			0 10		
11	6	10	310. 17	. 99	10	18 609. 7	0 10	3 551. 8	5. 1
12	6	1	341. 19	. 99	1	20 470. 7	0 15	5 327. 6	11. 4
13	6	2	372. 20	. 99	2	22 331. 7	0 20	7 103. 5	20. 3
14	7	3	403. 22	. 99	3	24 192. 7	0 25	8 879. 3	31. 7
		4	434. 24	. 99	4	26 053. 7	0 30	10 655. 2	45. 6
79 15	31. 017			1860. 99			0 35		
16	7	15	465. 26	1. 00	15	27 914. 7	0 35	12 431. 0	62. 1
17	7	6	496. 27	. 00	6	29 775. 7	0 40	14 206. 8	81. 1
18	7	7	527. 29	. 00	7	31 636. 7	0 45	15 982. 5	102. 7
19	7	8	558. 31	. 00	8	33 497. 7	0 50	17 758. 2	126. 8
		9	589. 32	. 00	9	35 358. 7	0 55	19 533. 9	153. 4
79 20	31. 017			1861. 00			1 00		
21	7	20	620. 34	. 01	20	37 219. 7	1 00	21 309. 6	182. 5
22	7	1	651. 36	. 01	1	39 080. 7	1 05	23 085. 2	214. 2
23	7	2	682. 38	. 01	2	40 941. 7	1 10	24 860. 7	248. 5
24	7	3	713. 39	. 01	3	42 802. 7	1 15	26 636. 2	285. 2
		4	744. 41	. 01	4	44 663. 7	1 20	28 411. 7	324. 5
79 25	31. 017			1861. 01			1 25		
26	7	25	775. 43	. 02	25	46 524. 7	1 25	30 187. 1	366. 4
27	7	6	806. 44	. 02	6	48 385. 8	1 30	31 962. 4	410. 7
28	7	7	837. 46	. 02	7	50 246. 8	1 35	33 737. 6	457. 6
29	7	8	868. 48	. 02	8	52 107. 8	1 40	35 512. 8	507. 0
		9	899. 49	. 02	9	53 968. 8	1 45	37 288. 0	559. 0
79 30	31. 017			1861. 02			1 50		
31	7	30	930. 51	. 03	30	55 829. 8	1 50	39 063. 0	613. 5
32	7	1	961. 53	. 03	1	57 690. 9	1 55	40 838. 0	670. 6
33	7	2	992. 55	. 03	2	59 551. 9	2 00	42 613	730
34	7	3	1 023. 56	. 03	3	61 412. 9	2 05	44 388. 0	790
		4	1 054. 58	. 03	4	63 274. 0	2 10	46 163. 0	860
79 35	31. 017			1861. 03			5 00		
36	7	35	1 085. 60	. 04	35	65 135. 0	5 00	106 423	4 561
37	7	6	1 116. 61	. 04	6	66 996. 0	6 00	127 639	6 566
38	7	7	1 147. 63	. 04	7	68 857. 1	7 00	148 817	8 934
39	7	8	1 178. 65	. 04	8	70 718. 1	8 00	169 952	11 665
		9	1 209. 67	. 04	9	72 579. 2	9 00	191 036	14 758
79 40	31. 017			1861. 04			10 00		
41	7	40	1 240. 68	. 05	40	74 440. 2	10 00	212 065	18 211
42	7	1	1 271. 70	. 05	1	76 301. 2	11 00	233 031	22 024
43	7	2	1 302. 72	. 05	2	78 162. 3	12 00	253 929	26 195
44	8	3	1 333. 73	. 05	3	80 023. 3	13 00	274 753	30 724
		4	1 364. 75	. 05	4	81 884. 4	14 00	295 496	35 609
79 45	31. 018			1861. 05			15 00		
46	8	45	1 395. 77	. 06	45	83 745. 4	15 00	316 152	40 849
47	8	6	1 426. 79	. 06	6	85 606. 5	16 00	336 715	46 442
48	8	7	1 457. 80	. 06	7	87 467. 6	17 00	357 180	52 386
49	8	8	1 488. 82	. 06	8	89 328. 6	18 00	377 540	58 680
		9	1 519. 84	. 06	9	91 189. 7	19 00	397 788	65 322
79 50	31. 018			1861. 06			20 00		
51	8	50	1 550. 85	. 07	50	93 050. 7	20 00	417 920	72 310
52	8	1	1 581. 87	. 07	1	94 911. 8	21 00	437 930	79 641
53	8	2	1 612. 89	. 07	2	96 772. 9	22 00	457 811	87 315
54	8	3	1 643. 90	. 07	3	98 633. 9	23 00	477 557	95 328
		4	1 674. 92	. 07	4	100 495. 0	24 00	497 164	103 678
79 55	31. 018			1861. 07			25 00		
56	8	55	1 705. 94	. 08	55	102 356. 1	25 00	516 624	112 362
57	8	6	1 736. 96	. 08	6	104 217. 1	26 00	535 933	121 379
58	8	7	1 767. 97	. 08	7	106 078. 2	27 00	555 084	130 725
59	8	8	1 798. 99	. 08	8	107 939. 3	28 00	574 073	140 398
60	8	9	1 830. 01	. 08	9	109 800. 4	29 00	592 893	150 395
		60	1 861. 02	1861. 08	60	111 661. 4	30 00	611 539	160 713

Latitude 80° to 81°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
80 00	5.387	10.77	16.16	21.55	26.94	32.32	37.71	43.10	48.49	53.88	59.27	64.65	70.04	75.43
1	.378	.76	1.13	1.51	1.89	2.27	2.65	3.03	3.41	3.79	4.17	4.54	4.92	5.30
2	.370	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18
3	.361	.72	1.08	1.44	1.80	2.16	2.52	2.89	3.25	3.61	3.97	4.33	4.69	5.05
4	.352	.70	1.06	1.41	1.76	2.11	2.46	2.81	3.17	3.52	3.87	4.22	4.57	4.92
80 05	5.343	10.69	16.03	21.37	26.72	32.06	37.40	42.74	48.09	53.43	58.77	64.11	69.45	74.79
6	.334	.67	1.00	1.34	1.67	2.00	2.34	2.67	3.01	3.34	3.67	4.01	4.34	4.67
7	.325	.65	0.98	1.30	1.63	1.95	2.28	2.60	2.93	3.25	3.57	3.89	4.21	4.53
8	.316	.63	0.95	1.27	1.59	1.90	2.21	2.53	2.85	3.17	3.48	3.79	4.10	4.41
9	.307	.61	0.92	1.23	1.54	1.84	2.15	2.46	2.77	3.08	3.38	3.68	3.98	4.28
80 10	5.298	10.60	15.90	21.19	26.49	31.79	37.09	42.39	47.69	52.99	58.29	63.58	68.88	74.18
11	.290	.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90	3.19	3.48	3.77	4.06
12	.281	.56	0.84	1.12	1.40	1.68	1.97	2.25	2.53	2.81	3.09	3.37	3.65	3.93
13	.272	.54	0.82	1.09	1.36	1.63	1.90	2.17	2.45	2.72	3.00	3.27	3.54	3.81
14	.263	.53	0.79	1.05	1.31	1.58	1.84	2.10	2.37	2.63	2.90	3.16	3.42	3.68
80 15	5.254	10.51	15.76	21.02	26.27	31.52	36.78	42.03	47.29	52.54	57.79	63.05	68.30	73.55
16	.245	.49	0.74	0.98	1.23	1.47	1.72	1.96	2.21	2.45	2.69	2.94	3.18	3.42
17	.236	.47	0.71	0.95	1.18	1.42	1.65	1.89	2.13	2.36	2.60	2.83	3.07	3.30
18	.227	.45	0.68	0.91	1.14	1.36	1.59	1.82	2.05	2.28	2.51	2.73	2.96	3.18
19	.218	.44	0.66	0.87	1.09	1.31	1.53	1.75	1.97	2.19	2.41	2.62	2.84	3.05
80 20	5.210	10.42	15.63	20.84	26.05	31.26	36.47	41.68	46.89	52.09	57.29	62.49	67.69	72.89
21	.201	.40	0.60	0.80	1.00	1.20	1.40	1.61	1.81	2.01	2.21	2.41	2.61	2.81
22	.192	.38	0.58	0.77	0.96	1.15	1.34	1.54	1.73	1.92	2.11	2.30	2.49	2.68
23	.183	.37	0.55	0.73	0.92	1.10	1.28	1.46	1.65	1.83	2.01	2.19	2.37	2.55
24	.174	.35	0.52	0.70	0.87	1.04	1.22	1.39	1.57	1.74	1.91	2.08	2.25	2.42
80 25	5.165	10.33	15.49	20.66	25.83	30.99	36.15	41.32	46.49	51.65	56.82	61.99	67.15	72.32
26	.156	.31	0.47	0.62	0.78	0.94	1.09	1.25	1.40	1.55	1.70	1.85	2.00	2.15
27	.147	.29	0.44	0.59	0.74	0.88	1.03	1.18	1.33	1.47	1.61	1.76	1.90	2.04
28	.138	.28	0.41	0.55	0.69	0.83	0.97	1.11	1.25	1.39	1.53	1.66	1.80	1.94
29	.129	.26	0.39	0.52	0.65	0.78	0.90	1.03	1.16	1.29	1.42	1.55	1.68	1.81
80 30	5.121	10.24	15.36	20.48	25.60	30.72	35.85	40.97	46.09	51.21	56.32	61.43	66.54	71.65
31	.112	.22	0.33	0.45	0.56	0.67	0.78	0.89	1.01	1.12	1.23	1.34	1.45	1.56
32	.103	.21	0.31	0.41	0.51	0.62	0.72	0.82	0.92	1.02	1.12	1.22	1.32	1.42
33	.094	.19	0.28	0.38	0.47	0.56	0.66	0.75	0.85	0.94	1.03	1.12	1.21	1.30
34	.085	.17	0.25	0.34	0.42	0.51	0.59	0.68	0.77	0.85	0.94	1.02	1.11	1.19
80 35	5.076	10.15	15.23	20.30	25.38	30.46	35.53	40.61	45.68	50.75	55.82	60.89	65.96	71.03
36	.067	.13	0.20	0.27	0.34	0.40	0.47	0.54	0.60	0.67	0.74	0.81	0.88	0.95
37	.058	.12	0.17	0.23	0.29	0.35	0.41	0.47	0.52	0.58	0.64	0.70	0.76	0.82
38	.049	.10	0.15	0.20	0.25	0.30	0.35	0.39	0.44	0.49	0.54	0.59	0.64	0.69
39	.040	.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.56
80 40	5.032	10.06	15.09	20.13	25.16	30.19	35.22	40.25	45.28	50.31	55.34	60.37	65.40	70.43
41	.023	.05	0.07	0.09	0.11	0.14	0.16	0.18	0.20	0.22	0.24	0.26	0.28	0.30
42	.014	.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17
43	5.005	10.01	15.01	20.02	25.02	30.03	35.03	40.04	45.04	50.04	55.04	60.04	65.04	70.04
44	4.996	9.99	14.99	19.98	24.98	29.98	34.97	39.97	44.96	49.96	54.95	59.95	64.94	69.94
80 45	4.987	9.97	14.96	19.95	24.94	29.92	34.91	39.90	44.88	49.87	54.85	59.84	64.83	69.82
46	.973	.96	0.93	0.91	0.89	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.72	0.70
47	.969	.94	0.91	0.88	0.85	0.82	0.79	0.75	0.72	0.69	0.66	0.63	0.60	0.57
48	.960	.92	0.88	0.84	0.80	0.76	0.72	0.68	0.64	0.60	0.56	0.52	0.48	0.44
49	.951	.90	0.85	0.81	0.76	0.71	0.66	0.61	0.56	0.51	0.46	0.42	0.37	0.32
80 50	4.943	9.89	14.83	19.77	24.71	29.66	34.60	39.54	44.48	49.42	54.36	59.30	64.24	69.18
51	.934	.87	0.80	0.73	0.67	0.60	0.54	0.47	0.40	0.33	0.26	0.20	0.14	0.08
52	.925	.85	0.77	0.70	0.62	0.55	0.47	0.40	0.32	0.25	0.17	0.10	0.03	-0.04
53	.916	.83	0.75	0.66	0.58	0.49	0.41	0.33	0.24	0.16	0.08	0.00	-0.08	-0.16
54	.907	.81	0.72	0.63	0.53	0.44	0.35	0.26	0.16	0.07	-0.02	-0.10	-0.18	-0.26
80 55	4.898	9.80	14.69	19.59	24.49	29.39	34.29	39.18	44.08	48.97	53.87	58.76	63.65	68.54
56	.889	.78	0.67	0.56	0.45	0.33	0.22	0.11	0.00	-0.11	-0.22	-0.33	-0.44	-0.55
57	.880	.76	0.64	0.52	0.40	0.28	0.16	0.04	-0.08	-0.19	-0.30	-0.41	-0.52	-0.63
58	.871	.74	0.61	0.48	0.36	0.23	0.10	0.00	-0.11	-0.22	-0.33	-0.44	-0.55	-0.66
59	.862	.72	0.59	0.45	0.31	0.17	0.04	-0.09	-0.20	-0.31	-0.42	-0.53	-0.64	-0.75
80 60	4.853	9.71	14.56	19.41	24.27	29.12	33.97	38.83	43.68	48.53	53.38	58.23	63.08	67.93

Lat.	Latitude 80° to 81°—Meridional arcs						Latitude 80°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 80°30'		Value of 1'	Continuous sums of minutes from latitude 80°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
80 00	31. 018			1861. 08			0 1	323. 2	0. 0
1	8	1	31. 02	. 08	1	1 861. 1	0 2	646. 5	0. 2
2	8	2	62. 04	. 09	2	3 722. 2	0 3	969. 7	0. 4
3	8	3	93. 06	. 09	3	5 583. 3	0 4	1 292. 9	0. 7
4	8	4	124. 08	. 09	4	7 444. 3			
80 05	31. 018	5	155. 09	1861. 09	5	9 305. 4	0 5	1 616. 2	1. 2
6	8	6	186. 11	. 09	6	11 166. 5	0 6	1 939. 4	1. 7
7	8	7	217. 13	. 10	7	13 027. 6	0 7	2 262. 7	2. 3
8	8	8	248. 15	. 10	8	14 888. 7	0 8	2 585. 9	3. 0
9	8	9	279. 17	. 10	9	16 749. 8	0 9	2 909. 1	3. 7
80 10	31. 018	10	310. 19	1861. 10	10	18 610. 9	0 10	3 232. 4	4. 6
11	8	1	341. 21	. 10	1	20 472. 0	0 15	4 848. 6	10. 4
12	8	2	372. 23	. 10	2	22 333. 1	0 20	6 464. 8	18. 5
13	8	3	403. 25	. 11	3	24 194. 2	0 25	8 080. 9	28. 9
14	8	4	434. 27	. 11	4	26 055. 3	0 30	9 697. 1	41. 7
80 15	31. 019	15	465. 28	1861. 11	15	27 916. 4	0 35	11 313. 2	56. 7
16	9	6	496. 30	. 11	6	29 777. 5	0 40	12 929. 3	74. 1
17	9	7	527. 32	. 11	7	31 638. 7	0 45	14 545. 4	93. 8
18	9	8	558. 34	. 12	8	33 499. 8	0 50	16 161. 4	115. 7
19	9	9	589. 36	. 12	9	35 360. 9	0 55	17 777. 5	140. 1
80 20	31. 019	20	620. 38	1861. 12	20	37 222. 0	1 00	19 393. 4	166. 7
21	9	1	651. 40	. 12	1	39 083. 1	1 05	21 009. 4	195. 6
22	9	2	682. 42	. 12	2	40 944. 2	1 10	22 625. 3	226. 9
23	9	3	713. 44	. 12	3	42 805. 4	1 15	24 241. 1	260. 4
24	9	4	744. 45	. 13	4	44 666. 5	1 20	25 856. 9	296. 3
80 25	31. 019	25	775. 47	1861. 13	25	46 527. 6	1 25	27 472. 7	334. 5
26	9	6	806. 49	. 13	6	48 388. 7	1 30	29 088. 4	375. 0
27	9	7	837. 51	. 13	7	50 249. 9	1 35	30 704. 0	417. 8
28	9	8	868. 53	. 13	8	52 111. 0	1 40	32 319. 6	462. 9
29	9	9	899. 55	. 14	9	53 972. 1	1 45	33 935. 1	510. 3
80 30	31. 019	30	930. 57	1861. 14	30	55 833. 3	1 50	35 550. 5	560. 1
31	9	1	961. 59	. 14	1	57 694. 4	1 55	37 165. 9	612. 2
32	9	2	992. 61	. 14	2	59 555. 6	2 00	38 781	667
33	9	3	1 023. 63	. 14	3	61 416. 7	2 05	58 157	1 500
34	9	4	1 054. 64	. 14	4	63 277. 8	2 10	77 516	2 666
80 35	31. 019	35	1 085. 66	1861. 15	35	65 139. 0	5 00	96 853	4 164
36	9	6	1 116. 68	. 15	6	67 000. 1	6 00	116 160	5 995
37	9	7	1 147. 70	. 15	7	68 861. 3	7 00	135 433	8 157
38	9	8	1 178. 72	. 15	8	70 722. 4	8 00	154 667	10 651
39	9	9	1 209. 74	. 15	9	72 583. 6	9 00	173 854	13 474
80 40	31. 019	40	1 240. 76	1861. 16	40	74 444. 7	10 00	192 990	16 627
41	9	1	1 271. 78	. 16	1	76 305. 9	11 00	212 070	20 108
42	9	2	1 302. 80	. 16	2	78 167. 1	12 00	231 086	23 916
43	9	3	1 333. 82	. 16	3	80 028. 2	13 00	250 034	28 051
44	9	4	1 364. 83	. 16	4	81 889. 4	14 00	268 909	32 511
80 45	31. 019	45	1 395. 85	1861. 16	45	83 750. 5	15 00	287 704	37 295
46	9	6	1 426. 87	. 17	6	85 611. 7	16 00	306 414	42 401
47	9	7	1 457. 89	. 17	7	87 472. 9	17 00	325 033	47 828
48	19	8	1 488. 91	. 17	8	89 334. 0	18 00	343 557	53 574
49	20	9	1 519. 93	. 17	9	91 195. 2	19 00	361 978	59 637
80 50	31. 020	50	1 550. 95	1861. 17	50	93 056. 4	20 00	380 293	66 017
51	0	1	1 581. 97	. 17	1	94 917. 6	21 00	398 496	72 710
52	0	2	1 612. 99	. 18	2	96 778. 7	22 00	416 581	79 715
53	0	3	1 644. 00	. 18	3	98 639. 9	23 00	434 543	87 030
54	0	4	1 675. 02	. 18	4	100 501. 1	24 00	452 376	94 652
80 55	31. 020	55	1 706. 04	1861. 18	55	102 362. 3	25 00	470 076	102 580
56	0	6	1 737. 06	. 18	6	104 223. 5	26 00	487 637	110 811
57	0	7	1 768. 08	. 19	7	106 084. 6	27 00	505 054	119 342
58	0	8	1 799. 10	. 19	8	107 945. 8	28 00	522 322	128 172
59	0	9	1 830. 12	. 19	9	109 807. 0	29 00	539 435	137 297
80 60	31. 020	60	1 861. 14	1861. 19	60	111 668. 2	30 00	556 389	146 715

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 81° to 82°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
81 00	4.853	9.71	14.56	19.41	24.27	29.12	33.97	38.83	43.68	291.2	582.4	873.6	1164.8	1456.0
1	.844	.69	.53	.38	.22	.07	.91	.75	.60	0.7	1.3	2.0	2.7	3.3
2	.836	.67	.51	.34	.18	9.01	.85	.69	.52	90.1	80.3	70.4	60.5	50.7
3	.827	.65	.48	.31	.13	8.96	.79	.61	.44	89.6	79.2	68.8	58.4	48.0
4	.818	.64	.45	.27	.09	.91	.72	.54	.36	9.1	8.1	7.2	6.3	5.3
81 05	4.809	9.62	14.43	19.23	24.04	28.85	33.66	38.47	43.28	288.5	577.1	865.6	1154.1	1442.6
6	.800	.60	.40	.20	4.00	.80	.60	.40	.20	8.0	6.0	4.0	52.0	40.0
7	.791	.58	.37	.16	3.96	.75	.54	.33	.12	7.5	4.9	2.4	49.8	37.3
8	.782	.56	.35	.13	.91	.69	.47	.26	3.04	6.9	3.8	60.8	7.7	4.6
9	.773	.55	.32	.09	.87	.64	.41	.18	2.96	6.4	2.8	59.2	5.6	31.9
81 10	4.764	9.53	14.29	19.06	23.82	28.59	33.35	38.11	42.88	285.9	571.7	857.6	1143.4	1429.3
11	.755	.51	.27	9.02	.78	.53	.29	8.04	.80	5.3	70.6	6.0	41.3	6.6
12	.746	.49	.24	8.99	.73	.48	.22	7.97	.72	4.8	69.6	4.4	39.1	3.9
13	.737	.47	.21	.95	.69	.42	.16	.90	.64	4.2	8.5	2.7	7.0	21.2
14	.729	.46	.19	.91	.64	.37	.10	.83	.56	3.7	7.4	51.1	4.9	18.6
81 15	4.720	9.44	14.16	18.88	23.60	28.32	33.04	37.76	42.48	283.2	566.4	849.5	1132.7	1415.9
16	.711	.42	.13	.84	.55	.26	2.98	.69	.40	2.6	5.3	7.9	30.6	3.2
17	.702	.40	.11	.81	.51	.21	.91	.61	.32	2.1	4.2	6.3	28.4	10.5
18	.693	.39	.08	.77	.47	.16	.85	.54	.23	1.6	3.1	4.7	6.3	07.9
19	.684	.37	.05	.74	.42	.10	.79	.47	.16	1.0	2.1	3.1	4.2	5.2
81 20	4.675	9.35	14.03	18.70	23.38	28.05	32.73	37.40	42.08	280.5	561.0	841.5	1122.0	1402.5
21	.666	.33	4.00	.66	.33	8.00	.66	.33	1.99	80.0	59.9	39.9	19.9	399.8
22	.657	.31	3.97	.63	.29	7.94	.60	.26	.92	79.4	8.9	8.3	7.7	7.2
23	.648	.30	.95	.59	.24	.89	.54	.19	.84	8.9	7.8	6.7	5.6	4.5
24	.639	.28	.92	.56	.20	.84	.48	.11	.75	8.4	6.7	5.1	3.5	91.8
81 25	4.630	9.26	13.89	18.52	23.15	27.78	32.41	37.04	41.67	277.8	555.7	833.5	1111.3	1389.1
26	.622	.24	.87	.48	.11	.73	.35	6.97	.59	7.3	4.6	1.9	09.2	6.5
27	.613	.22	.84	.45	.06	.68	.29	.90	.51	6.8	3.5	30.3	7.0	3.8
28	.604	.21	.81	.41	3.02	.62	.23	.83	.43	6.2	2.4	28.7	4.9	81.1
29	.595	.19	.78	.38	2.97	.57	.16	.76	.35	5.7	1.4	7.1	2.7	78.4
81 30	4.586	9.17	13.76	18.34	22.93	27.51	32.10	36.69	41.27	275.1	550.3	825.4	1100.6	1375.7
31	.577	.15	.73	.31	.89	.46	2.04	.62	.19	4.6	49.2	3.8	098.5	3.1
32	.568	.14	.70	.27	.84	.41	1.98	.54	.11	4.1	8.2	2.2	6.3	70.4
33	.559	.12	.68	.24	.80	.35	.91	.47	1.03	3.5	7.1	20.6	4.2	67.7
34	.550	.10	.65	.20	.75	.30	.85	.40	0.95	3.0	6.0	19.0	92.0	5.0
81 35	4.541	9.08	13.62	18.17	22.71	27.25	31.79	36.33	40.87	272.5	544.9	817.4	1089.9	1362.4
36	.532	.06	.60	.13	.66	.19	.73	.26	.79	1.9	3.9	5.8	7.7	59.7
37	.523	.05	.57	.09	.62	.14	.66	.19	.71	1.4	2.8	4.2	5.6	7.0
38	.514	.03	.54	.06	.57	.09	.60	.11	.63	0.9	1.7	2.6	3.5	4.3
39	.506	9.01	.52	8.02	.53	7.03	.54	6.05	.55	70.3	40.7	11.0	81.3	51.7
81 40	4.497	8.99	13.49	17.99	22.48	26.98	31.48	35.97	40.47	269.8	539.6	809.4	1079.2	1349.0
41	.488	.98	.46	.95	.44	.93	.41	.90	.39	9.3	8.5	7.8	7.0	6.3
42	.479	.96	.44	.91	.39	.87	.35	.83	.31	8.7	7.4	6.2	4.9	3.6
43	.470	.94	.41	.88	.35	.82	.29	.76	.23	8.2	6.4	4.6	2.7	40.9
44	.461	.92	.38	.84	.30	.77	.23	.69	.15	7.7	5.3	3.0	70.6	38.3
81 45	4.452	8.90	13.36	17.81	22.26	26.71	31.16	35.62	40.07	267.1	534.2	801.3	1068.5	1335.6
46	.443	.89	.33	.77	.22	.66	.10	.54	39.99	6.6	3.2	799.7	6.3	2.9
47	.434	.87	.30	.74	.17	.60	1.04	.47	.91	6.0	2.1	8.1	4.2	30.2
48	.425	.85	.27	.70	.13	.55	0.98	.40	.83	5.5	31.0	6.5	62.0	27.5
49	.416	.83	.25	.67	.08	.50	.91	.33	.75	5.0	30.0	4.9	59.9	4.9
81 50	4.407	8.81	13.22	17.63	22.04	26.44	30.85	35.26	39.67	264.4	528.9	793.3	1057.7	1322.2
51	.398	.80	.19	.59	1.99	.39	.79	.19	.59	3.9	7.8	1.7	5.6	19.5
52	.389	.78	.17	.56	.95	.34	.73	.11	.50	3.4	6.7	90.1	3.5	6.8
53	.380	.76	.14	.52	.90	.28	.66	5.04	.42	2.8	5.7	88.5	51.3	4.1
54	.372	.74	.11	.49	.86	.23	.60	4.97	.35	2.3	4.6	6.9	49.2	11.5
81 55	4.363	8.73	13.09	17.45	21.81	26.18	30.54	34.90	39.26	261.8	523.5	785.3	1047.0	1308.8
56	.354	.71	.06	.41	.77	.12	.48	.83	.18	1.2	2.4	3.7	4.9	6.1
57	.345	.69	.03	.38	.72	.07	.41	.76	.10	0.7	1.4	2.0	2.7	3.4
58	.336	.67	3.01	.34	.68	6.02	.35	.69	9.02	60.2	20.3	80.4	40.6	300.7
59	.327	.65	2.98	.31	.64	5.96	.29	.62	8.94	59.6	19.2	78.8	38.4	298.1
81 60	4.318	8.64	12.95	17.27	21.59	25.91	30.23	34.54	38.86	259.1	518.2	777.2	1036.3	1295.4

Lat.	Latitude 81° to 82°—Meridional arcs						Latitude 81°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 81°30'		Value of 1'	Continuous sums of minutes from latitude 81°00'		Longitude	X	Y
		Meters	''		Meters	Meters			
81 00	31.020			1861.19			0 1	291.2	0.0
1	0	1	31.02	.19	1	861.2	0 2	582.4	0.2
2	0	2	62.04	.19	2	3 722.4	0 3	873.6	0.4
3	0	3	93.06	.20	3	5 583.6	0 4	1 164.8	0.7
4	0	4	124.08	.20	4	7 444.8			
81 05	31.020	5	155.10	1861.20	5	9 306.0	0 5	1 456.0	1.0
6	0	6	186.12	.20	6	11 167.2	0 6	1 747.2	1.5
7	0	7	217.14	.20	7	13 028.4	0 7	2 038.4	2.0
8	0	8	248.17	.20	8	14 889.6	0 8	2 329.6	2.7
9	0	9	279.19	.21	9	16 750.8	0 9	2 620.8	3.4
81 10	31.020	10	310.21	1861.21	10	18 612.0	0 10	2 912.0	4.2
11	0	1	341.23	.21	1	20 473.2	0 15	4 368.0	9.4
12	0	2	372.25	.21	2	22 334.4	0 20	5 824.0	16.7
13	0	3	403.27	.21	3	24 195.6	0 25	7 280.0	26.1
14	0	4	434.29	.21	4	26 056.8	0 30	8 736.0	37.6
81 15	31.020	15	465.31	1861.22	15	27 918.0	0 35	10 191.9	51.2
16	0	6	496.33	.22	6	29 779.3	0 40	11 647.9	66.9
17	0	7	527.35	.22	7	31 640.5	0 45	13 103.8	84.7
18	0	8	558.37	.22	8	33 501.7	0 50	14 559.6	104.6
19	0	9	589.39	.22	9	35 362.9	0 55	16 015.5	126.5
81 20	31.020	20	620.41	1861.22	20	37 224.1	1 00	17 471.3	150.6
21	0	1	651.43	.23	1	39 085.4	1 05	18 927.1	176.7
22	0	2	682.45	.23	2	40 946.6	1 10	20 382.8	205.0
23	0	3	713.48	.23	3	42 807.8	1 15	21 838.5	235.3
24	1	4	744.50	.23	4	44 669.0	1 20	23 294.2	267.7
81 25	31.021	25	775.52	1861.23	25	46 530.3	1 25	24 749.8	302.2
26	1	6	806.54	.23	6	48 391.5	1 30	26 205.3	338.8
27	1	7	837.56	.24	7	50 252.7	1 35	27 660.8	377.5
28	1	8	868.58	.24	8	52 114.0	1 40	29 116.3	418.3
29	1	9	899.60	.24	9	53 975.2	1 45	30 571.7	461.2
81 30	31.021	30	930.62	1861.24	30	55 836.5	1 50	32 027.0	506.1
31	1	1	961.64	.24	1	57 697.7	1 55	33 482.2	553.2
32	1	2	992.66	.24	2	59 558.9	2 00	34 937	602
33	1	3	1 023.68	.24	3	61 420.2	2 05	52 393	1 355
34	1	4	1 054.70	.25	4	63 281.4	2 10	69 833	2 409
81 35	31.021	35	1 085.72	1861.25	35	65 142.7	5 00	87 253	3 763
36	1	6	1 116.74	.25	6	67 003.9	6 00	104 646	5 417
37	1	7	1 147.76	.25	7	68 865.2	7 00	122 009	7 370
38	1	8	1 178.79	.25	8	70 726.4	8 00	139 335	9 623
39	1	9	1 209.81	.25	9	72 587.7	9 00	156 620	12 174
81 40	31.021	40	1 240.83	1861.26	40	74 448.9	10 00	173 858	15 022
41	1	1	1 271.85	.26	1	76 310.2	11 00	191 044	18 168
42	1	2	1 302.87	.26	2	78 171.5	12 00	208 174	21 609
43	1	3	1 333.89	.26	3	80 032.7	13 00	225 242	25 344
44	1	4	1 364.91	.26	4	81 894.0	14 00	242 243	29 374
81 45	31.021	45	1 395.93	1861.26	45	83 755.2	15 00	259 172	33 696
46	1	6	1 426.95	.27	6	85 616.5	16 00	276 024	38 309
47	1	7	1 457.97	.27	7	87 477.8	17 00	292 794	43 212
48	1	8	1 488.99	.27	8	89 339.0	18 00	309 477	48 403
49	1	9	1 520.01	.27	9	91 200.3	19 00	326 068	53 881
81 50	31.021	50	1 551.03	861.27	50	93 061.6	20 00	342 562	59 644
51	1	1	1 582.05	.27	1	94 922.9	21 00	358 954	65 691
52	1	2	1 613.07	.27	2	96 784.1	22 00	375 240	72 019
53	1	3	1 644.10	.28	3	98 645.4	23 00	391 414	78 627
54	1	4	1 675.12	.28	4	100 506.7	24 00	407 472	85 513
81 55	31.021	55	1 706.14	1861.28	55	102 368.0	25 00	423 408	92 675
56	1	6	1 737.16	.28	6	104 229.3	26 00	439 219	100 110
57	1	7	1 768.18	.28	7	106 090.5	27 00	454 900	107 817
58	1	8	1 799.20	.28	8	107 951.8	28 00	470 445	115 793
59	1	9	1 830.22	.29	9	109 813.1	29 00	485 850	124 036
81 60	31.021	60	1 861.24	1861.29	60	111 674.4	30 00	501 111	132 543

UNITED STATES COAST AND GEODETIC SURVEY

Latitude 82° to 83°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
82 00	4.318	8.64	12.95	17.27	21.59	25.91	30.23	34.54	38.86	259.1	518.2	777.2	1036.3	1295.4
01	.309	.62	.93	.24	.55	.85	.16	.47	.78	8.5	7.1	5.6	4.2	2.7
02	.300	.60	.90	.20	.50	.80	.10	.40	.70	8.0	6.0	4.0	32.0	90.0
03	.291	.58	.87	.16	.46	.75	.30.04	.33	.62	7.5	4.9	2.4	29.9	87.3
04	.282	.56	.85	.13	.41	.69	29.98	.26	.54	6.9	3.9	70.8	7.7	4.6
82 05	4.273	8.55	12.82	17.09	21.37	25.64	29.91	34.18	38.46	256.4	512.8	769.2	1025.6	1282.0
06	.264	.53	.79	.06	.32	.59	.85	.11	.38	5.9	1.7	7.6	3.4	79.3
07	.255	.51	.77	17.02	.28	.53	.79	4.04	.30	5.3	10.6	6.0	21.3	6.6
08	.246	.49	.74	6.99	.23	.48	.72	3.97	.22	4.8	09.6	4.4	19.1	3.9
09	.237	.47	.71	.95	.19	.42	.66	.90	.14	4.2	8.5	2.7	7.0	71.2
82 10	4.229	8.46	12.69	16.91	21.14	25.37	29.60	33.83	38.06	253.7	507.4	761.1	1014.8	1268.6
11	.220	.44	.66	.88	.10	.32	.54	.76	7.98	3.2	6.4	59.5	2.7	5.9
12	.211	.42	.63	.84	.05	.26	.47	.69	.90	2.6	5.3	7.9	10.6	3.2
13	.202	.40	.61	.81	1.01	.21	.41	.61	.82	2.1	4.2	6.3	08.4	60.5
14	.193	.39	.58	.77	0.96	.16	.35	.54	.73	1.6	3.1	4.7	6.3	57.8
82 15	4.184	8.37	12.55	16.74	20.92	25.10	29.29	33.47	37.65	251.0	502.0	753.1	1004.1	1255.1
16	.175	.35	.53	.70	.88	.05	.22	.40	.57	0.5	501.0	51.5	1002.0	52.5
17	.166	.33	.50	.66	.83	5.00	.16	.33	.49	50.0	499.9	49.9	999.8	49.8
18	.157	.31	.47	.63	.79	4.94	.10	.25	.41	49.4	8.8	8.3	7.7	7.1
19	.148	.30	.44	.59	.74	.89	9.04	.18	.33	8.9	7.8	6.6	5.5	4.4
82 20	4.139	8.28	12.42	16.56	20.70	24.83	28.97	33.11	37.25	248.3	496.7	745.0	993.4	1241.7
21	.130	.26	.39	.52	.65	.78	.91	3.04	.17	7.8	5.6	3.4	91.2	39.1
22	.121	.24	.36	.49	.61	.73	.85	2.97	.09	7.3	4.5	1.8	89.1	6.4
23	.112	.22	.34	.45	.56	.67	.78	.90	7.01	6.7	3.5	40.2	6.9	3.7
24	.103	.21	.31	.41	.52	.62	.72	.83	6.93	6.2	2.4	38.6	4.8	31.0
82 25	4.094	8.19	12.28	16.38	20.47	24.57	28.66	32.75	36.85	245.7	491.3	737.0	982.7	1228.3
26	.085	.17	.26	.34	.43	.51	.60	.68	.77	5.1	90.2	5.4	80.5	5.6
27	.076	.15	.23	.31	.38	.46	.53	.61	.69	4.6	89.2	3.8	78.4	2.9
28	.068	.14	.20	.27	.34	.41	.47	.54	.61	4.1	81	2.2	6.2	20.3
29	.059	.12	.18	.23	.29	.35	.41	.47	.53	3.5	7.0	30.5	4.1	17.6
82 30	4.050	8.10	12.15	16.20	20.25	24.30	28.35	32.40	36.45	243.0	486.0	728.9	971.9	1214.9
31	.041	.08	.12	.16	.20	.24	.28	.33	.37	2.4	4.9	7.3	69.8	12.2
32	.032	.06	.10	.13	.16	.19	.22	.25	.29	1.9	3.8	5.7	7.6	09.5
33	.023	.05	.07	.09	.12	.14	.16	.18	.21	1.4	2.7	4.1	5.5	6.9
34	.014	.03	.04	.06	.07	.08	.10	.11	.13	0.8	1.7	2.5	3.3	4.2
82 35	4.005	8.01	12.02	16.02	20.03	24.03	28.03	32.04	36.04	240.3	480.6	720.9	961.2	1201.5
36	3.996	7.99	1.99	5.98	19.98	3.98	7.97	1.97	5.96	39.8	79.5	19.3	59.0	198.8
37	.987	.97	.96	.95	.94	.92	.91	.90	.88	9.2	8.4	7.7	6.9	6.1
38	.978	.96	.93	.91	.89	.87	.85	.82	.80	8.7	7.4	6.1	4.7	3.4
39	.969	.94	.91	.88	.85	.81	.78	.75	.72	8.1	6.3	4.4	2.6	90.7
82 40	3.960	7.92	11.88	15.84	19.80	23.76	27.72	31.68	35.64	237.6	475.2	712.8	950.4	1188.1
41	.951	.90	.85	.81	.76	.71	.66	.61	.56	7.1	4.2	11.2	48.3	5.4
42	.942	.88	.83	.77	.71	.65	.60	.54	.48	6.5	3.1	09.6	6.1	2.7
43	.933	.87	.80	.73	.67	.60	.53	.47	.40	6.0	2.0	3.0	4.0	80.0
44	.924	.85	.77	.70	.62	.55	.47	.39	.32	5.5	70.9	6.4	41.8	77.3
82 45	3.915	7.83	11.75	15.66	19.58	23.49	27.41	31.32	35.24	234.9	469.9	704.8	939.7	1174.6
46	.906	.81	.72	.63	.53	.44	.34	.25	.16	4.4	8.8	3.2	7.6	71.9
47	.898	.80	.69	.59	.49	.39	.28	.18	.08	3.9	7.7	701.6	5.4	69.3
48	.889	.78	.67	.55	.44	.33	.22	.11	5.00	3.3	6.6	699.9	3.3	6.6
49	.880	.76	.64	.52	.40	.28	.16	1.04	4.92	2.8	5.6	8.3	31.1	3.9
82 50	3.871	7.74	11.61	15.48	19.35	23.22	27.09	30.97	34.84	232.2	464.5	696.7	929.0	1161.2
51	.862	.72	.58	.45	.31	.17	7.03	.89	.76	1.7	3.4	5.1	6.8	53.5
52	.853	.71	.56	.41	.26	.12	6.97	.82	.67	1.2	2.3	3.5	4.7	5.8
53	.844	.69	.53	.37	.22	.06	.90	.75	.59	0.6	1.3	1.9	2.5	3.1
54	.835	.67	.50	.34	.17	3.01	.84	.68	.52	30.1	60.2	90.3	20.4	50.5
82 55	3.826	7.65	11.48	15.30	19.13	22.96	26.78	30.61	34.43	229.6	459.1	688.7	918.2	1147.8
56	.817	.63	.45	.27	.09	.90	.72	.54	.35	9.0	8.0	7.0	6.1	5.1
57	.808	.62	.42	.23	.04	.85	.66	.46	.27	8.5	7.0	5.4	3.9	42.4
58	.799	.60	.40	.20	9.00	.79	.59	.39	.19	7.9	5.9	3.8	11.8	39.7
59	.790	.58	.37	.16	8.95	.74	.53	.32	.11	7.4	4.8	2.2	09.6	7.0
82 60	3.781	7.56	11.34	15.12	18.91	22.69	26.47	30.25	34.03	226.9	453.7	680.6	907.5	1134.3

Lat.	Latitude 82° to 83°—Meridional arcs						Latitude 82°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 82°30'		Value of 1'		Continuous sums of minutes from latitude 82°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	°	'	Meters	Meters	
82 00	31.021			1861.29			0 1		259.1	0.0	
1	1	1	31.02	.29	1	861.3	0 2		518.1	0.2	
2	2	2	62.04	.29	2	722.6	0 3		777.2	0.3	
3	2	3	93.07	.29	3	583.9	0 4		1 036.3	0.6	
4	2	4	124.09	.29	4	445.2					
82 05	31.022	5	155.11	1861.29	5	9 306.5	0 5		1 295.4	0.9	
6	2	6	186.13	.30	6	11 167.7	0 6		1 554.5	1.3	
7	2	7	217.16	.30	7	13 029.0	0 7		1 813.5	1.8	
8	2	8	248.18	.30	8	14 890.3	0 8		2 072.6	2.4	
9	2	9	279.20	.30	9	16 751.6	0 9		2 331.7	3.0	
82 10	31.022	10	310.22	1861.30	10	18 612.9	0 10		2 590.8	3.7	
11	2	1	341.24	.30	1	20 474.2	0 15		3 886.1	8.4	
12	2	2	372.27	.30	2	22 335.6	0 20		5 181.5	14.9	
13	2	3	403.29	.31	3	24 196.9	0 25		6 476.8	23.3	
14	2	4	434.31	.31	4	26 058.2	0 30		7 772.2	33.6	
82 15	31.022	15	465.33	1861.31	15	27 919.5	0 35		9 067.5	45.7	
16	2	6	496.36	.31	6	29 780.8	0 40		10 362.8	59.7	
17	2	7	527.38	.31	7	31 642.1	0 45		11 658.1	75.6	
18	2	8	558.40	.31	8	33 503.4	0 50		12 953.3	93.3	
19	2	9	589.42	.32	9	35 364.7	0 55		14 248.5	112.9	
82 20	31.022	20	620.44	1861.32	20	37 226.0	1 00		15 543.7	134.3	
21	2	1	651.47	.32	1	39 087.4	1 05		16 838.9	157.6	
22	2	2	682.49	.32	2	40 948.7	1 10		18 134.0	182.8	
23	2	3	713.51	.32	3	42 810.0	1 15		19 429.1	209.9	
24	2	4	744.53	.32	4	44 671.3	1 20		20 724.2	238.8	
82 25	31.022	25	775.55	1861.32	25	46 532.6	1 25		22 019.2	269.6	
26	2	6	806.58	.33	6	48 394.0	1 30		23 314.2	302.2	
27	2	7	837.60	.33	7	50 255.3	1 35		24 609.1	336.7	
28	2	8	868.62	.33	8	52 116.6	1 40		25 904.0	373.1	
29	2	9	899.64	.33	9	53 978.0	1 45		27 198.8	411.4	
82 30	31.022	30	930.67	1861.33	30	55 839.3	1 50		28 493.5	451.5	
31	2	1	961.69	.33	1	57 700.6	1 55		29 788.2	493.5	
32	2	2	992.71	.33	2	59 562.0	2 00		31 083	537	
33	2	3	1 023.73	.34	3	61 423.3	2 05		32 378	581	
34	2	4	1 054.75	.34	4	63 284.6	2 10		33 673	625	
82 35	31.022	35	1 085.78	1861.34	35	65 146.0	5 00		77 626	3 356	
36	2	6	1 116.80	.34	6	67 007.3	6 00		93 100	4 832	
37	2	7	1 147.82	.34	7	68 868.6	7 00		108 546	6 574	
38	2	8	1 178.84	.34	8	70 730.0	8 00		123 960	8 583	
39	2	9	1 209.87	.34	9	72 591.3	9 00		139 337	10 859	
82 40	31.022	40	1 240.89	1861.35	40	74 452.7	10 00		154 672	13 400	
41	2	1	1 271.91	.35	1	76 314.0	11 00		169 962	16 205	
42	2	2	1 302.93	.35	2	78 175.4	12 00		185 200	19 274	
43	2	3	1 333.95	.35	3	80 036.7	13 00		200 383	22 607	
44	3	4	1 364.98	.35	4	81 898.1	14 00		215 506	26 201	
82 45	31.023	45	1 396.00	1861.35	45	83 759.4	15 00		230 565	30 056	
46	3	6	1 427.02	.35	6	85 620.8	16 00		245 555	34 170	
47	3	7	1 458.04	.36	7	87 482.1	17 00		260 471	38 543	
48	3	8	1 489.07	.36	8	89 343.5	18 00		275 310	43 173	
49	3	9	1 520.09	.36	9	91 204.9	19 00		290 066	48 059	
82 50	31.023	50	1 551.11	1861.36	50	93 066.2	20 00		304 736	53 200	
51	3	1	1 582.13	.36	1	94 927.6	21 00		319 315	58 593	
52	3	2	1 613.15	.36	2	96 788.9	22 00		333 798	64 237	
53	3	3	1 644.18	.36	3	98 650.3	23 00		348 182	70 130	
54	3	4	1 675.20	.36	4	100 511.7	24 00		362 462	76 272	
82 55	31.023	55	1 706.22	1861.37	55	102 373.0	25 00		376 633	82 659	
56	3	6	1 737.24	.37	6	104 234.4	26 00		390 692	89 290	
57	3	7	1 768.26	.37	7	106 095.8	27 00		404 634	96 163	
58	3	8	1 799.29	.37	8	107 957.1	28 00		418 456	103 276	
59	3	9	1 830.31	.37	9	109 818.5	29 00		432 152	110 627	
82 60	31.023	60	1 861.33	1861.37	60	111 679.9	30 00		445 719	118 214	

Latitude 83° to 84°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
83 00	3.781	7.56	11.34	15.12	18.91	22.69	26.47	30.25	34.03	226.9	453.7	680.6	907.5	1134.3
1	.772	.55	.32	.09	.86	.63	.41	.18	3.95	6.3	2.7	79.0	5.3	1.7
2	.763	.53	.29	.05	.82	.58	.34	.11	.87	5.8	1.6	7.4	3.2	29.0
3	.754	.51	.26	5.02	.77	.53	.28	30.03	.79	5.3	50.6	5.8	901.0	6.3
4	.745	.49	.24	4.98	.73	.47	.22	29.96	.71	4.7	49.4	4.1	898.9	3.6
83 05	3.736	7.47	11.20	14.95	18.68	22.42	26.16	29.89	33.63	224.2	448.4	672.5	896.7	1120.9
6	.727	.45	.18	.91	.64	.36	.09	.82	.55	3.6	7.3	70.9	4.6	18.2
7	.718	.44	.15	.87	.59	.31	6.03	.75	.46	3.1	6.2	69.3	2.4	5.5
8	.709	.42	.13	.84	.55	.26	5.97	.67	.38	2.6	5.1	7.7	90.3	2.8
9	.700	.40	.10	.80	.50	.20	.90	.60	.30	2.0	4.1	6.1	88.1	10.1
83 10	3.692	7.38	11.07	14.77	18.46	22.15	25.84	29.53	33.22	221.5	443.0	664.5	886.0	1107.5
11	.683	.36	.05	.73	.41	.10	.78	.46	.14	1.0	1.9	2.9	3.8	4.8
12	.674	.35	1.02	.69	.37	2.04	.72	.39	3.06	20.4	40.8	61.2	81.7	102.1
13	.665	.33	0.99	.66	.32	1.99	.65	.32	2.98	19.9	39.8	59.6	79.5	099.4
14	.656	.31	.97	.62	.28	.93	.59	.25	.90	9.3	8.7	8.0	7.4	6.7
83 15	3.647	7.29	10.94	14.59	18.23	21.88	25.53	29.17	32.82	218.8	437.6	656.4	875.2	1094.0
16	.638	.28	.91	.55	.19	.83	.46	.10	.74	8.3	6.5	4.8	3.1	91.3
17	.629	.26	.89	.51	.14	.77	.40	9.03	.66	7.7	5.4	3.2	70.9	88.6
18	.620	.24	.86	.48	.10	.72	.34	8.96	.58	7.2	4.4	1.6	68.8	6.0
19	.611	.22	.83	.44	.06	.67	.27	.89	.50	6.7	3.3	50.0	6.6	3.3
83 20	3.602	7.20	10.81	14.41	18.01	21.61	25.21	28.82	32.42	216.1	432.2	648.3	864.5	1080.6
21	.593	.19	.78	.37	7.97	.56	.15	.74	.34	5.6	1.2	6.7	2.3	77.9
22	.584	.17	.75	.34	.92	.50	.09	.67	.26	5.0	30.1	5.1	60.2	5.2
23	.575	.15	.73	.30	.88	.45	5.02	.60	.18	4.5	29.0	3.5	58.0	72.5
24	.566	.13	.70	.26	.83	.40	4.96	.53	.09	4.0	7.9	1.9	5.9	69.8
83 25	3.557	7.11	10.67	14.23	17.79	21.34	24.90	28.46	32.01	213.4	426.9	640.3	853.7	1067.1
26	.548	.10	.64	.19	.74	.29	.84	.38	1.93	2.9	5.8	38.7	51.6	4.4
27	.539	.08	.62	.16	.70	.24	.78	.31	.85	2.4	4.7	7.1	49.4	61.8
28	.530	.06	.59	.12	.65	.18	.71	.24	.77	1.8	3.6	5.4	7.3	59.1
29	.521	.04	.56	.09	.61	.13	.65	.17	.69	1.3	2.6	3.8	5.1	6.4
83 30	3.512	7.02	10.54	14.05	17.56	21.07	25.59	28.10	31.61	210.7	421.5	632.2	843.0	1053.7
31	.503	7.01	.51	4.01	.52	1.02	.52	8.03	.53	10.2	20.4	30.6	40.8	51.0
32	.494	6.99	.48	3.98	.47	0.97	.46	7.95	.45	09.7	19.3	29.0	38.6	48.3
33	.485	.97	.46	.94	.43	.91	.40	.88	.37	9.1	8.2	7.4	6.5	5.6
34	.476	.95	.43	.91	.38	.86	.33	.81	.29	8.6	7.2	5.8	4.3	2.9
83 35	3.467	6.93	10.40	13.87	17.34	20.80	24.27	27.74	31.21	208.0	416.1	624.1	832.2	1040.2
36	.458	.92	.38	.83	.29	.75	.21	.67	.12	7.5	5.0	2.5	30.0	37.5
37	.450	.90	.35	.80	.25	.70	.15	.60	1.05	7.0	3.9	20.9	27.9	4.9
38	.441	.88	.32	.76	.20	.64	.08	.52	0.97	6.4	2.9	19.3	5.7	32.2
39	.432	.86	.30	.73	.16	.59	4.02	.45	.88	5.9	1.8	7.7	3.6	29.5
83 40	3.423	6.85	10.27	13.69	17.11	20.54	23.96	27.38	30.80	205.4	410.7	616.1	821.4	1026.8
41	.414	.83	.24	.65	.07	.48	.90	.31	.72	4.8	09.6	4.5	19.3	4.1
42	.405	.81	.21	.62	7.02	.43	.83	.24	.64	4.3	8.6	2.8	7.1	21.4
43	.396	.79	.19	.58	6.98	.37	.77	.17	.56	3.7	7.5	11.2	5.0	18.7
44	.387	.77	.16	.55	.93	.32	.71	.09	.48	3.2	6.4	09.6	2.8	6.0
83 45	3.378	6.76	10.13	13.51	16.89	20.27	23.64	27.02	30.40	202.7	405.3	608.0	810.7	1013.3
46	.369	.74	.11	.47	.84	.21	.58	6.95	.32	2.1	4.3	6.4	08.5	10.6
47	.360	.72	.08	.44	.80	.16	.52	.88	.24	1.6	3.2	4.8	6.4	07.9
48	.351	.70	.05	.40	.75	.11	.46	.81	.16	1.1	2.1	3.2	4.2	5.3
49	.342	.68	.03	.37	.71	.05	.39	.74	.08	0.5	1.0	601.5	802.1	1002.6
83 50	3.333	6.67	10.00	13.33	16.67	20.00	23.33	26.66	30.00	200.0	400.0	599.9	799.9	999.9
51	.324	.65	9.97	.30	.62	19.94	.27	.59	29.92	199.4	398.9	8.3	7.7	7.2
52	.315	.63	.95	.26	.58	.89	.20	.52	.84	8.9	7.8	6.7	5.6	4.5
53	.306	.61	.92	.22	.53	.84	.14	.45	.75	8.4	6.7	5.1	3.4	91.8
54	.297	.59	.89	.19	.49	.78	.08	.38	.67	7.8	5.6	3.5	91.3	89.1
83 55	3.288	6.58	9.86	13.15	16.44	19.73	23.01	26.30	29.59	197.3	394.6	591.8	789.1	986.4
56	.279	.56	.84	.11	.40	.67	2.95	.23	.51	6.7	3.5	90.2	7.0	3.7
57	.270	.54	.81	.08	.35	.62	.89	.16	.43	6.2	2.4	88.6	4.8	81.0
58	.261	.52	.78	.04	.31	.57	.83	.09	.35	5.7	1.3	7.0	2.7	78.3
59	.252	.50	.76	3.01	.26	.51	.76	6.02	.27	5.1	90.3	5.4	80.5	5.6
83 60	3.243	6.49	9.73	12.97	16.22	19.46	22.70	25.94	29.19	194.6	389.2	583.8	778.4	972.9

TERRESTRIAL ARCS

Lat.	Latitude 83° to 84°—Meridional arcs						Latitude 83°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 83°30'		Value of 1'	Continuous sums of minutes from latitude 83°00'		Longitude	X	Y
	Meters	''	Meters	Meters	'	Meters	° '	Meters	Meters
83 00	31.023			1861.37			0 1	226.9	0.0
1	3	1	31.02	.38	1	1 861.4	0 2	453.7	0.1
2	3	2	62.05	.38	2	3 722.7	0 3	680.6	0.3
3	3	3	93.07	.38	3	5 584.1	0 4	907.5	0.5
4	3	4	124.09	.38	4	7 445.5			
83 05	31.023	5	155.12	1861.38	5	9 306.9	0 5	1 134.3	0.8
6	3	6	186.14	.38	6	11 168.3	0 6	1 361.2	1.2
7	3	7	217.16	.38	7	13 029.6	0 7	1 588.1	1.6
8	3	8	248.19	.38	8	14 891.0	0 8	1 814.9	2.1
9	3	9	279.21	.39	9	16 752.4	0 9	2 041.8	2.7
83 10	31.023	10	310.24	1861.39	10	18 613.8	0 10	2 268.7	3.3
11	3	1	341.26	.39	1	20 475.2	0 15	3 403.0	7.4
12	3	2	372.28	.39	2	22 336.6	0 20	4 537.3	13.1
13	3	3	403.31	.39	3	24 197.9	0 25	5 671.6	20.5
14	3	4	434.33	.39	4	26 059.3	0 30	6 805.9	29.5
83 15	31.023	15	465.35	1861.39	15	27 920.7	0 35	7 940.2	40.1
16	3	6	496.38	.39	6	29 782.1	0 40	9 074.5	52.4
17	3	7	527.40	.40	7	31 643.5	0 45	10 208.7	66.3
18	3	8	558.42	.40	8	33 504.9	0 50	11 343.0	81.9
19	3	9	589.45	.40	9	35 366.3	0 55	12 477.2	99.1
83 20	31.023	20	620.47	1861.40	20	37 227.7	1 00	13 611.4	117.9
21	3	1	651.49	.40	1	39 089.1	1 05	14 745.5	138.4
22	3	2	682.52	.40	2	40 950.5	1 10	15 879.6	160.5
23	3	3	713.54	.40	3	42 811.9	1 15	17 013.7	184.2
24	3	4	744.56	.40	4	44 673.3	1 20	18 147.8	209.6
83 25	31.023	25	775.59	1861.41	25	46 534.7	1 25	19 281.8	236.6
26	3	6	806.61	.41	6	48 396.1	1 30	20 415.8	265.3
27	3	7	837.64	.41	7	50 257.5	1 35	21 549.7	295.6
28	3	8	868.66	.41	8	52 118.9	1 40	22 683.6	327.5
29	4	9	899.68	.41	9	53 980.3	1 45	23 817.4	361.1
83 30	31.024	30	930.71	1861.41	30	55 841.7	1 50	24 951.2	396.3
31	4	1	961.73	.41	1	57 703.2	1 55	26 084.9	433.1
32	4	2	992.75	.41	2	59 564.6	2 00	27 219	472
33	4	3	1 023.78	.42	3	61 426.0	2 05	28 353	511
34	4	4	1 054.80	.42	4	63 287.4	2 10	29 487	550
83 35	31.024	35	1 085.82	1861.42	35	65 148.8	2 15	30 621	589
36	4	6	1 116.85	.42	6	67 010.2	2 20	31 755	628
37	4	7	1 147.87	.42	7	68 871.7	2 25	32 889	667
38	4	8	1 178.89	.42	8	70 733.1	2 30	34 023	706
39	4	9	1 209.92	.42	9	72 594.5	2 35	35 157	745
83 40	31.024	40	1 240.94	1861.42	40	74 455.9	2 40	36 291	784
41	4	1	1 271.96	.43	1	76 317.3	2 45	37 425	823
42	4	2	1 302.99	.43	2	78 178.8	2 50	38 559	862
43	4	3	1 334.01	.43	3	80 040.2	2 55	39 693	901
44	4	4	1 365.04	.43	4	81 901.6	3 00	40 827	940
83 45	31.024	45	1 396.06	1861.43	45	83 763.1	3 05	41 961	979
46	4	6	1 427.08	.43	6	85 624.5	3 10	43 095	1018
47	4	7	1 458.11	.43	7	87 485.9	3 15	44 229	1057
48	4	8	1 489.13	.43	8	89 347.4	3 20	45 363	1096
49	4	9	1 520.15	.43	9	91 208.8	3 25	46 497	1135
83 50	31.024	50	1 551.18	1861.44	50	93 070.2	3 30	47 631	1174
51	4	1	1 582.20	.44	1	94 931.7	3 35	48 765	1213
52	4	2	1 613.22	.44	2	96 793.1	3 40	49 899	1252
53	4	3	1 644.25	.44	3	98 654.5	3 45	51 033	1291
54	4	4	1 675.27	.44	4	100 516.0	3 50	52 167	1330
83 55	31.024	55	1 706.29	1861.44	55	102 377.4	3 55	53 301	1369
56	4	6	1 737.32	.44	6	104 238.9	4 00	54 435	1408
57	4	7	1 768.34	.44	7	106 100.3	4 05	55 569	1447
58	4	8	1 799.36	.45	8	107 961.8	4 10	56 703	1486
59	4	9	1 830.39	.45	9	109 823.2	4 15	57 837	1525
83 60	31.024	60	1 861.41	1861.45	60	111 684.7	4 20	58 971	1564

Latitude 84° to 85°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
84 00	3.243	6.49	9.73	12.97	16.22	19.46	22.70	25.94	29.19	194.6	389.2	583.8	778.4	972.9
1	.234	.47	.70	.94	.17	.41	.64	.87	.11	4.1	8.1	2.2	6.2	70.3
2	.225	.45	.68	.90	.13	.35	.58	.80	9.03	3.5	7.0	80.5	4.0	67.6
3	.216	.43	.65	.86	.08	.30	.51	.73	8.95	3.0	5.9	78.9	71.9	4.9
4	.207	.41	.62	.83	6.04	.24	.45	.66	.87	2.4	4.9	7.3	69.7	62.2
84 05	3.198	6.40	9.59	12.79	15.99	19.19	22.39	25.59	28.78	191.9	383.8	575.7	767.6	959.5
6	.189	.38	.57	.76	.95	.14	.33	.51	.70	1.4	2.7	4.1	5.4	6.8
7	.180	.36	.54	.72	.90	.08	.26	.44	.62	0.8	1.6	2.5	3.3	4.1
8	.171	.34	.51	.69	.86	9.03	.20	.37	.54	90.3	80.6	70.8	61.1	51.4
9	.162	.32	.49	.65	.81	8.97	.14	.30	.46	89.7	79.5	69.2	59.0	48.7
84 10	3.153	6.31	9.46	12.61	15.77	18.92	22.07	25.23	28.38	189.2	378.4	567.6	756.8	946.0
11	.144	.29	.43	.58	.72	.87	2.01	.15	.30	8.7	7.3	6.0	4.7	3.3
12	.135	.27	.41	.54	.68	.81	1.95	.08	.22	8.1	6.2	4.4	2.5	40.6
13	.126	.25	.38	.50	.63	.76	.88	5.01	.14	7.6	5.2	2.8	50.3	37.9
14	.117	.23	.35	.47	.59	.70	.82	4.94	8.06	7.0	4.1	61.1	48.2	5.2
84 15	3.108	6.22	9.33	12.43	15.54	18.65	21.76	24.87	27.97	186.5	373.0	559.5	746.0	932.5
16	.099	.20	.30	.40	.50	.60	.70	.79	.89	6.0	1.9	7.9	3.9	29.8
17	.091	.18	.27	.36	.45	.54	.63	.73	.82	5.4	70.9	6.3	41.7	7.2
18	.082	.16	.24	.33	.41	.49	.57	.65	.73	4.9	69.8	4.7	39.6	4.5
19	.073	.14	.22	.29	.36	.44	.51	.58	.65	4.4	8.7	3.1	7.4	21.8
84 20	3.064	6.13	9.19	12.25	15.32	18.38	21.45	24.51	27.57	183.8	367.6	551.4	735.3	919.1
21	.055	.11	.16	.22	.27	.33	.38	.44	.49	3.3	6.5	49.8	3.1	6.4
22	.046	.09	.14	.18	.23	.27	.32	.37	.41	2.7	5.5	8.2	30.9	3.7
23	.037	.07	.11	.14	.18	.22	.26	.29	.33	2.2	4.4	6.6	28.8	11.0
24	.028	.06	.08	.11	.14	.17	.19	.22	.25	1.7	3.3	5.0	6.6	08.3
84 25	3.019	6.04	9.06	12.07	15.09	18.11	21.13	24.15	27.17	181.1	362.2	543.4	724.5	905.6
26	.010	.02	.03	.04	.05	.06	.07	.08	.09	0.6	1.2	1.7	2.3	2.9
27	3.001	6.00	9.00	2.00	5.00	8.00	1.00	4.01	7.01	80.0	60.1	40.1	20.2	900.2
28	2.992	5.99	8.97	1.97	4.96	7.95	0.94	3.93	6.92	79.5	59.0	38.5	18.0	897.5
29	.983	.97	.95	.93	.91	.90	.88	.86	.84	9.0	7.9	6.9	5.9	4.8
84 30	2.974	5.95	8.92	11.89	14.87	17.84	20.82	23.79	26.76	178.4	356.8	535.3	713.7	892.1
31	.965	.93	.89	.86	.82	.79	.75	.72	.68	7.9	5.8	3.7	11.5	89.4
32	.956	.91	.87	.82	.78	.73	.69	.65	.60	7.3	4.7	2.0	09.4	6.7
33	.947	.89	.84	.79	.73	.68	.63	.57	.52	6.8	3.6	30.4	7.2	4.0
34	.938	.88	.81	.75	.69	.63	.56	.50	.44	6.3	2.5	28.8	5.1	81.3
84 35	2.929	5.86	8.79	11.71	14.64	17.57	20.50	23.43	26.36	175.7	351.4	527.2	702.9	878.6
36	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	50.4	5.7	700.8	6.0
37	.911	.82	.73	.65	.56	.47	.38	.29	.20	4.7	49.3	4.0	698.6	3.3
38	.902	.81	.71	.61	.51	.41	.32	.22	.12	4.1	8.2	2.3	6.5	70.6
39	.893	.79	.68	.57	.47	.36	.26	.15	6.04	3.6	7.1	20.7	4.3	67.9
84 40	2.884	5.77	8.65	11.54	14.42	17.30	20.19	23.07	25.96	173.0	346.1	519.1	692.1	865.2
41	.875	.75	.62	.50	.38	.25	.13	3.00	.88	2.5	5.0	7.5	90.0	62.5
42	.866	.73	.60	.46	.33	.20	.06	2.93	.79	2.0	3.9	5.9	87.8	59.8
43	.857	.71	.57	.43	.29	.14	20.00	.86	.71	1.4	2.8	4.3	5.7	7.1
44	.848	.70	.54	.39	.24	.09	19.94	.78	.63	0.9	1.8	2.6	3.5	4.4
84 45	2.839	5.68	8.52	11.36	14.20	17.03	19.87	22.71	25.55	170.3	340.7	511.0	681.4	851.7
46	.830	.66	.49	.32	.15	6.98	.81	.64	.47	69.8	39.6	09.4	79.2	49.0
47	.821	.64	.46	.28	.11	.93	.75	.57	.39	9.3	8.5	7.8	7.0	6.3
48	.812	.62	.44	.25	.06	.87	.68	.50	.31	8.7	7.4	6.2	4.9	3.6
49	.803	.61	.41	.21	4.02	.82	.62	.42	.23	8.2	6.4	4.5	2.7	40.9
84 50	2.794	5.59	8.38	11.18	13.97	16.76	19.56	22.35	25.15	167.6	335.3	502.9	670.6	838.2
51	.785	.57	.35	.14	.93	.71	.50	.28	5.07	7.1	4.2	501.3	68.4	5.5
52	.776	.55	.33	.10	.88	.66	.43	.21	4.98	6.6	3.1	499.7	6.3	2.8
53	.767	.53	.30	.07	.84	.60	.37	.14	.90	6.0	2.0	8.1	4.1	30.1
54	.758	.52	.27	.03	.79	.55	.31	2.06	.82	5.5	31.0	6.5	61.9	27.4
84 55	2.749	5.50	8.25	11.00	13.75	16.49	19.24	21.99	24.74	164.9	329.9	494.8	659.8	824.7
56	.740	.48	.22	0.96	.70	.44	.18	.92	.66	4.4	8.8	3.2	7.6	22.0
57	.731	.46	.19	.92	.66	.39	.12	.85	.58	3.9	7.7	1.6	5.5	19.3
58	.722	.44	.17	.89	.61	.33	9.05	.78	.50	3.3	6.7	90.0	3.3	6.6
59	.713	.43	.14	.85	.57	.28	8.99	.70	.42	2.8	5.6	88.4	51.2	3.9
84 60	2.704	5.41	8.11	10.82	13.52	16.22	18.93	21.63	24.34	162.2	324.5	486.7	649.0	811.2

Lat.	Latitude 84° to 85°—Meridional arcs					Latitude 84°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 84°30'		Value of 1'	Continuous sums of minutes from latitude 84°00'	Longitude	X	Y	
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
84 00	31.024			1861.45					
1	4	1	31.02	.45	1	1 861.4	0 1	194.6	0.0
2	4	2	62.05	.45	2	3 722.9	2	389.2	0.1
3	4	3	93.07	.45	3	5 584.4	3	583.8	0.3
4	4	4	124.10	.45	4	7 445.8	4	778.3	0.5
84 05	31.024	5	155.12	1861.45	5	9 307.3	0 5	972.9	0.7
6	4	6	186.15	.45	6	11 168.7	6	1 167.5	1.0
7	4	7	217.17	.46	7	13 030.2	7	1 362.1	1.4
8	4	8	248.20	.46	8	14 891.6	8	1 556.7	1.8
9	4	9	279.22	.46	9	16 753.1	9	1 751.3	2.3
84 10	31.024	10	310.25	1861.46	10	18 614.5	0 10	1 945.9	2.8
11	4	1	341.27	.46	1	20 476.0	15	2 918.8	6.3
12	4	2	372.30	.46	2	22 337.5	20	3 891.8	11.3
13	4	3	403.32	.46	3	24 198.9	25	4 864.7	17.6
14	4	4	434.35	.46	4	26 060.4	30	5 837.6	25.3
84 15	31.024	15	465.37	1861.46	15	27 921.9	0 35	6 810.5	34.5
16	4	6	496.39	.47	6	29 783.3	40	7 783.4	45.0
17	4	7	527.42	.47	7	31 644.8	45	8 756.2	57.0
18	4	8	558.44	.47	8	33 506.3	50	9 729.1	70.4
19	4	9	589.47	.47	9	35 367.7	55	10 701.9	85.1
84 20	31.025	20	620.49	1861.47	20	37 229.2	1 00	11 674.7	101.3
21	5	1	651.52	.47	1	39 090.7	05	12 647.5	118.9
22	5	2	682.54	.47	2	40 952.1	10	13 620.3	137.9
23	5	3	713.57	.47	3	42 813.6	15	14 593.0	158.3
24	5	4	744.59	.47	4	44 675.1	20	15 565.7	180.1
84 25	31.025	25	775.62	1861.48	25	46 536.6	1 25	16 538.4	203.3
26	5	6	806.64	.48	6	48 398.0	30	17 511.0	228.0
27	5	7	837.67	.48	7	50 259.5	35	18 483.6	254.0
28	5	8	868.69	.48	8	52 121.0	40	19 456.2	281.5
29	5	9	899.72	.48	9	53 982.5	45	20 428.7	310.3
84 30	31.025	30	930.74	1861.48	30	55 844.0	1 50	21 401.2	340.6
31	5	1	961.77	.48	1	57 705.4	55	22 373.6	372.2
32	5	2	992.79	.48	2	59 566.9	2 00	23 346	405
33	5	3	1 023.81	.48	3	61 428.4	3 00	35 010	912
34	5	4	1 054.84	.49	4	63 289.9	4 00	46 664	1 621
84 35	31.025	35	1 085.86	1861.49	35	65 151.4	5 00	58 303	2 532
36	5	6	1 116.89	.49	6	67 012.9	6 00	69 925	3 644
37	5	7	1 147.91	.49	7	68 874.4	7 00	81 526	4 959
38	5	8	1 178.94	.49	8	70 735.9	8 00	93 103	6 475
39	5	9	1 209.96	.49	9	72 597.3	9 00	104 651	8 191
84 40	31.025	40	1 240.99	1861.49	40	74 458.8	10 00	116 168	10 107
41	5	1	1 272.01	.49	1	76 320.3	11 00	127 650	12 223
42	5	2	1 303.04	.49	2	78 181.8	12 00	139 093	14 539
43	5	3	1 334.06	.49	3	80 043.3	13 00	150 494	17 052
44	5	4	1 365.09	.50	4	81 904.8	14 00	161 851	19 763
84 45	31.025	45	1 396.11	1861.50	45	83 766.3	15 00	173 158	22 670
46	5	6	1 427.14	.50	6	85 627.8	16 00	184 413	25 774
47	5	7	1 458.16	.50	7	87 489.3	17 00	195 613	29 072
48	5	8	1 489.18	.50	8	89 350.8	18 00	206 753	32 564
49	5	9	1 520.21	.50	9	91 212.3	19 00	217 832	36 249
84 50	31.025	50	1 551.23	1861.50	50	93 073.8	20 00	228 845	40 126
51	5	1	1 582.26	.50	1	94 935.3	21 00	239 788	44 193
52	5	2	1 613.28	.50	2	96 796.8	22 00	250 660	48 450
53	5	3	1 644.31	.50	3	98 658.3	23 00	261 456	52 894
54	5	4	1 675.33	.51	4	100 519.8	24 00	272 173	57 526
84 55	31.025	55	1 706.36	1861.51	55	102 381.3	25 00	282 809	62 343
56	5	6	1 737.38	.51	6	104 242.8	26 00	293 359	67 343
57	5	7	1 768.41	.51	7	106 104.3	27 00	303 820	72 526
58	5	8	1 799.43	.51	8	107 965.9	28 00	314 190	77 890
59	5	9	1 830.46	.51	9	109 827.4	29 00	324 466	83 433
84 60	31.025	60	1 861.48	1861.51	60	111 688.9	30 00	334 644	89 153

Latitude 85° to 86°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
85 00	2.704	5.41	8.11	10.82	13.52	16.22	18.93	21.63	24.34	162.2	324.5	486.7	649.0	811.2
1	.695	.39	.09	.78	.48	.17	.87	.56	.26	1.7	3.4	5.1	6.8	8.6
2	.686	.37	.06	.75	.43	.12	.80	.49	.18	1.2	2.3	3.5	4.7	5.9
3	.677	.35	.03	.71	.39	.06	.74	.42	.10	0.6	1.3	1.9	2.5	3.2
4	.668	.34	8.00	.67	.34	6.01	.68	.35	4.02	60.1	20.2	80.3	40.4	800.5
85 05	2.659	5.32	7.98	10.64	13.30	15.96	18.62	21.27	23.93	159.6	319.1	478.7	638.2	797.8
6	.650	.30	.95	.60	.25	.90	.55	.20	.85	9.0	8.0	7.0	6.1	5.1
7	.641	.28	.92	.57	.21	.85	.49	.13	.77	8.5	7.0	5.4	3.9	92.4
8	.632	.26	.90	.53	.16	.79	.43	1.06	.69	7.9	5.9	3.8	31.7	89.7
9	.623	.25	.87	.49	.12	.74	.36	.99	.61	7.4	4.8	2.2	29.6	7.0
85 10	2.614	5.23	7.84	10.46	13.07	15.69	18.30	20.91	23.53	156.9	313.7	470.6	627.4	784.3
11	.605	.21	.82	.42	3.03	.63	.24	.84	.45	6.3	2.6	68.9	5.3	81.6
12	.596	.19	.79	.39	2.98	.58	.17	.77	.37	5.8	1.6	7.3	3.1	78.9
13	.587	.17	.76	.35	.94	.52	.11	.70	.29	5.2	10.5	5.7	20.9	6.2
14	.578	.16	.73	.31	.89	.47	8.05	.63	.21	4.7	09.4	4.1	18.8	3.5
85 15	2.569	5.14	7.71	10.28	12.85	15.42	17.99	20.55	23.12	154.2	308.3	462.5	616.6	770.8
16	.560	.12	.68	.24	.80	.36	.92	.48	3.04	3.6	7.2	60.9	4.5	68.1
17	.551	.10	.65	.21	.76	.31	.86	.41	2.96	3.1	6.2	59.2	2.3	5.4
18	.542	.08	.63	.17	.71	.25	.80	.34	.88	2.5	5.1	7.6	10.2	2.7
19	.533	.07	.60	.13	.67	.20	.73	.27	.80	2.0	4.0	6.0	08.0	60.0
85 20	2.524	5.05	7.57	10.10	12.62	15.15	17.67	20.19	22.72	151.5	302.9	454.4	605.8	757.3
21	.515	.03	.55	.06	.58	.09	.61	.12	.64	0.9	1.8	2.8	3.7	4.6
22	.506	5.01	.52	10.03	.53	5.04	.54	20.05	.56	50.4	300.8	51.1	601.5	51.9
23	.497	4.99	.49	9.99	.49	4.98	.48	19.98	.48	49.8	299.7	49.5	599.4	49.2
24	.488	.98	.46	.95	.44	.93	.42	.91	.40	9.3	8.6	7.9	7.2	6.5
85 25	2.479	4.96	7.44	9.92	12.40	14.88	17.36	19.83	22.31	148.8	297.5	446.3	595.0	743.8
26	.470	.94	.41	.88	.35	.82	.29	.76	.23	8.2	6.4	4.7	2.9	41.1
27	.461	.92	.38	.85	.31	.77	.23	.69	.15	7.7	5.4	3.0	90.7	38.4
28	.452	.90	.36	.81	.26	.71	.17	.62	2.07	7.1	4.3	41.4	88.6	5.7
29	.443	.89	.33	.77	.22	.66	.10	.55	1.99	6.6	3.2	39.8	6.4	3.0
85 30	2.434	4.87	7.30	9.74	12.17	14.61	17.04	19.47	21.91	146.1	292.1	438.2	584.2	730.3
31	.425	.85	.28	.70	.13	.55	6.98	.40	.83	5.5	1.0	6.6	82.1	27.6
32	.416	.83	.25	.67	.08	.50	.91	.33	.75	5.0	90.0	4.9	79.9	4.9
33	.407	.81	.22	.63	2.04	.44	.85	.26	.67	4.4	88.9	3.3	7.8	22.2
34	.398	.80	.19	.59	1.99	.39	.79	.19	.59	3.9	7.8	1.7	5.6	19.5
85 35	2.389	4.78	7.17	9.56	11.95	14.34	16.73	19.11	21.50	143.4	286.7	430.1	573.4	716.8
36	.380	.76	.14	.52	.90	.28	.66	9.04	.42	2.8	5.6	28.5	71.3	4.1
37	.371	.74	.11	.49	.86	.23	.60	8.97	.34	2.3	4.6	6.8	69.1	11.4
38	.362	.72	.09	.45	.81	.17	.54	.90	.26	1.7	3.5	5.2	7.0	08.7
39	.353	.71	.06	.41	.77	.12	.47	.83	.18	1.2	2.4	3.6	4.8	6.0
85 40	2.344	4.69	7.03	9.38	11.72	14.07	16.41	18.75	21.10	140.7	281.3	422.0	562.6	703.3
41	.335	.67	7.01	.34	.68	4.01	.35	.68	1.02	40.1	80.2	20.4	60.5	700.6
42	.326	.65	6.98	.31	.63	3.96	.28	.61	0.94	39.6	79.2	18.7	58.3	697.9
43	.317	.63	.95	.27	.59	.90	.22	.54	.86	9.0	8.1	7.1	6.2	5.2
44	.308	.62	.92	.23	.54	.85	.16	.47	.78	8.5	7.0	5.5	4.0	92.5
85 45	2.299	4.60	6.90	9.20	11.50	13.80	16.10	18.39	20.69	138.0	275.9	413.9	551.8	689.8
46	.290	.58	.87	.16	.45	.74	6.03	.32	.61	7.4	4.8	2.3	49.7	7.1
47	.281	.56	.84	.13	.41	.69	5.97	.25	.53	6.9	3.8	10.6	7.5	4.4
48	.272	.54	.82	.09	.36	.63	.91	.18	.45	6.3	2.7	09.0	5.4	81.7
49	.263	.53	.79	.05	.32	.58	.84	.11	.37	5.8	1.6	7.4	3.2	79.0
85 50	2.254	4.51	6.76	9.02	11.27	13.53	15.78	18.03	20.29	135.3	270.5	405.8	541.0	676.3
51	.245	.49	.74	8.98	.23	.47	.72	7.96	.21	4.7	69.4	4.2	38.9	3.6
52	.236	.47	.71	.95	.18	.42	.65	.89	.13	4.2	8.4	2.5	6.7	70.9
53	.227	.45	.68	.91	.14	.36	.59	.82	20.05	3.6	7.3	400.9	4.6	68.2
54	.218	.44	.65	.87	.09	.31	.53	.75	19.97	3.1	6.2	399.3	2.4	5.5
85 55	2.209	4.42	6.63	8.84	11.05	13.26	15.46	17.67	19.88	132.6	265.1	397.7	530.2	662.8
56	.200	.40	.60	.80	1.00	.20	.40	.60	.80	2.0	4.0	6.1	28.1	60.1
57	.191	.38	.57	.77	0.96	.15	.34	.53	.72	1.5	3.0	4.4	5.9	57.4
58	.182	.36	.55	.73	.91	.09	.28	.46	.64	0.9	1.9	2.8	3.8	4.7
59	.173	.35	.52	.69	.87	3.04	.21	.39	.56	30.4	60.8	91.2	21.6	52.0
85 60	2.164	4.33	6.49	8.66	10.82	12.99	15.15	17.31	19.48	129.9	259.7	389.6	519.4	649.3

Lat.	Latitude 85° to 86°—Meridional arcs						Latitude 85°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 85°30'		Value of 1'	Continuous sums of minutes from latitude 85°00'		Longitude	X	Y
° /	Meters	''	Meters	Meters	'	Meters	° /	Meters	Meters
85 00	31.025			1861.51			0 1	162.2	0.0
1	5	1	31.03	.51	1	1 861.5	0 2	324.5	0.1
2	5	2	62.05	.51	2	3 723.0	0 3	486.7	0.2
3	5	3	93.08	.51	3	5 584.5	0 4	649.0	0.4
4	5	4	124.10	.51	4	7 446.0			
85 05	31.025	5	155.13	1861.52	5	9 307.6	0 5	811.2	0.6
6	5	6	186.15	.52	6	11 169.1	0 6	973.5	0.8
7	5	7	217.18	.52	7	13 030.6	0 7	1 135.7	1.1
8	5	8	248.21	.52	8	14 892.1	0 8	1 298.0	1.5
9	5	9	279.23	.52	9	16 753.6	0 9	1 460.2	1.9
85 10	31.025	10	310.26	1861.52	10	18 615.2	0 10	1 622.5	2.3
11	5	1	341.28	.52	1	20 476.7	0 15	2 433.7	5.3
12	5	2	372.31	.52	2	22 338.2	0 20	3 245.0	9.4
13	5	3	403.33	.52	3	24 199.7	0 25	4 056.2	14.7
14	5	4	434.36	.52	4	26 061.2	0 30	4 867.4	21.2
85 15	31.025	15	465.38	1861.53	15	27 922.8	0 35	5 678.6	28.8
16	5	6	496.41	.53	6	29 784.3	0 40	6 489.8	37.6
17	5	7	527.44	.53	7	31 645.8	0 45	7 301.0	47.6
18	5	8	558.46	.53	8	33 507.3	0 50	8 112.2	58.8
19	5	9	589.49	.53	9	35 368.9	0 55	8 923.3	71.1
85 20	31.025	20	620.51	1861.53	20	37 230.4	1 00	9 734.5	84.6
21	6	1	651.54	.53	1	39 091.9	1 05	10 545.6	99.3
22	6	2	682.56	.53	2	40 953.5	1 10	11 356.7	115.2
23	6	3	713.59	.53	3	42 815.0	1 15	12 167.8	132.2
24	6	4	744.62	.53	4	44 676.5	1 20	12 978.8	150.4
85 25	31.026	25	775.64	1861.53	25	46 538.1	1 25	13 789.8	169.8
26	6	6	806.67	.54	6	48 399.6	1 30	14 600.8	190.4
27	6	7	837.69	.54	7	50 261.1	1 35	15 411.8	212.2
28	6	8	868.72	.54	8	52 122.7	1 40	16 222.7	235.1
29	6	9	899.74	.54	9	53 984.2	1 45	17 033.6	259.2
85 30	31.026	30	930.77	1861.54	30	55 845.7	1 50	17 844.5	284.4
31	6	1	961.79	.54	1	57 707.3	1 55	18 655.3	310.9
32	6	2	992.82	.54	2	59 568.8	2 00	19 466	338
33	6	3	1 023.85	.54	3	61 430.4	2 05	20 277	366
34	6	4	1 054.87	.54	4	63 291.9	2 10	21 088	394
85 35	31.026	35	1 085.90	1861.54	35	65 153.4	5 00	48 613	2 114
36	6	6	1 116.92	.54	6	67 015.0	6 00	58 304	3 044
37	6	7	1 147.95	.54	7	68 876.5	7 00	67 977	4 142
38	6	8	1 178.97	.55	8	70 738.1	8 00	77 629	5 408
39	6	9	1 210.00	.55	9	72 599.6	9 00	87 258	6 841
85 40	31.026	40	1 241.03	1861.55	40	74 461.2	10 00	96 860	8 442
41	6	1	1 272.05	.55	1	76 322.7	11 00	106 433	10 209
42	6	2	1 303.08	.55	2	78 184.3	12 00	115 974	12 143
43	6	3	1 334.10	.55	3	80 045.8	13 00	125 480	14 242
44	6	4	1 365.13	.55	4	81 907.4	14 00	134 948	16 506
85 45	31.026	45	1 396.15	1861.55	45	83 768.9	15 00	144 375	18 934
46	6	6	1 427.18	.55	6	85 630.5	16 00	153 759	21 526
47	6	7	1 458.21	.55	7	87 492.0	17 00	163 096	24 281
48	6	8	1 489.23	.55	8	89 353.6	18 00	172 383	27 197
49	6	9	1 520.26	.55	9	91 215.2	19 00	181 619	30 275
85 50	31.026	50	1 551.28	1861.56	50	93 076.7	20 00	190 800	33 512
51	6	1	1 582.31	.56	1	94 938.3	21 00	199 922	36 909
52	6	2	1 613.33	.56	2	96 799.8	22 00	208 985	40 464
53	6	3	1 644.36	.56	3	98 661.4	23 00	217 985	44 176
54	6	4	1 675.38	.56	4	100 522.9	24 00	226 918	48 044
85 55	31.026	55	1 706.41	1861.56	55	102 384.5	25 00	235 783	52 066
56	6	6	1 737.44	.56	6	104 246.1	26 00	244 577	56 243
57	6	7	1 768.46	.56	7	106 107.6	27 00	253 296	60 571
58	6	8	1 799.49	.56	8	107 969.2	28 00	261 939	65 050
59	6	9	1 830.51	.56	9	109 830.8	29 00	270 503	69 679
85 60	31.026	60	1 861.54	1861.56	60	111 692.3	30 00	278 936	74 456

Latitude 86° to 87°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
86 00	2.164	4.33	6.49	8.66	10.82	12.99	15.15	17.31	19.48	129.9	259.7	389.6	519.4	649.3
1	.155	.31	.47	.62	.78	.93	.09	.24	.40	9.3	8.6	8.0	7.3	6.6
2	.146	.29	.44	.59	.73	.88	5.02	.17	.32	8.8	7.6	6.3	5.1	3.9
3	.137	.27	.41	.55	.69	.82	4.96	.10	.24	8.2	6.5	4.7	3.0	4.2
4	.128	.26	.38	.51	.64	.77	.90	7.03	.16	7.7	5.4	3.1	10.8	38.5
86 05	2.119	4.24	6.36	8.48	10.60	12.72	14.83	16.95	19.07	127.2	254.3	381.5	508.6	635.8
6	.110	.22	.33	.44	.55	.66	.77	.88	8.99	6.6	3.2	79.9	6.5	3.1
7	.101	.20	.30	.41	.51	.61	.71	.81	.91	6.1	2.2	8.2	4.3	30.4
8	.092	.18	.28	.37	.46	.55	.65	.74	.83	5.5	1.1	6.6	2.2	27.7
9	.083	.17	.25	.33	.42	.50	.58	.67	.75	5.0	50.0	5.0	500.0	5.0
86 10	2.074	4.15	6.22	8.30	10.37	12.45	14.52	16.59	18.67	124.5	248.9	373.4	497.8	622.3
11	.065	.13	.20	.26	.33	.39	.46	.52	.59	3.9	7.8	1.8	5.7	19.6
12	.056	.11	.17	.23	.28	.34	.39	.45	.51	3.4	6.8	70.1	3.5	6.9
13	.047	.09	.14	.19	.24	.28	.33	.38	.43	2.8	5.7	68.5	91.3	4.2
14	.038	.08	.11	.15	.19	.23	.27	.31	.35	2.3	4.6	6.9	89.2	11.5
86 15	2.029	4.06	6.09	8.12	10.15	12.18	14.20	16.23	18.26	121.8	243.5	365.3	487.0	608.8
16	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.4	3.6	4.9	6.1
17	.011	.02	.03	.05	.06	.07	.08	.09	.10	0.7	1.3	2.0	2.7	3.4
18	2.002	4.00	6.01	8.01	10.01	2.01	4.02	6.02	8.02	20.1	40.3	60.4	80.5	600.7
19	1.993	3.99	5.98	7.97	9.97	1.96	3.95	5.95	7.94	19.6	39.2	58.8	78.4	598.0
86 20	1.984	3.97	5.95	7.94	9.92	11.91	13.89	15.87	17.86	119.1	238.1	357.2	476.2	595.3
21	.975	.95	.93	.90	.88	.85	.83	.80	.78	8.5	7.0	5.5	4.0	92.6
22	.966	.93	.90	.87	.83	.80	.76	.73	.70	8.0	5.9	3.9	71.9	89.9
23	.957	.91	.87	.83	.79	.74	.70	.66	.62	7.4	4.9	2.3	69.7	7.2
24	.948	.90	.84	.79	.74	.69	.64	.59	.54	6.9	3.8	50.7	7.6	4.5
86 25	1.939	3.88	5.82	7.76	9.70	11.64	13.58	15.51	17.45	116.4	232.7	349.1	465.4	581.8
26	.930	.86	.79	.72	.65	.58	.51	.44	.37	5.8	1.6	7.4	3.2	79.0
27	.921	.84	.76	.68	.61	.53	.45	.37	.29	5.3	30.5	5.8	61.1	6.3
28	.912	.82	.74	.65	.56	.47	.38	.30	.21	4.7	29.5	4.2	58.9	3.6
29	.903	.81	.71	.61	.52	.42	.32	.22	.13	4.2	8.4	2.6	6.8	70.9
86 30	1.894	3.79	5.68	7.58	9.47	11.36	13.26	15.15	17.05	113.6	227.3	340.9	454.6	568.2
31	.885	.77	.65	.54	.43	.31	.20	.08	6.97	3.1	6.2	39.3	2.4	5.5
32	.876	.75	.63	.50	.38	.26	.13	5.01	.88	2.6	5.1	7.7	50.3	2.8
33	.867	.73	.60	.47	.34	.20	.07	4.94	.80	2.0	4.1	6.1	48.1	60.1
34	.858	.72	.57	.43	.29	.15	3.01	.86	.72	1.5	3.0	4.5	5.9	57.4
86 35	1.849	3.70	5.55	7.40	9.25	11.09	12.94	14.79	16.64	110.9	221.9	332.8	443.8	554.7
36	.840	.68	.52	.36	.20	1.04	.88	.72	.56	10.4	20.8	31.2	41.6	52.0
37	.831	.66	.49	.32	.16	0.99	.82	.65	.48	09.9	19.7	29.6	39.5	49.3
38	.822	.64	.47	.29	.11	.93	.75	.58	.40	9.3	8.6	8.0	7.3	6.6
39	.813	.63	.44	.25	.07	.88	.69	.50	.32	8.8	7.6	6.3	5.1	3.9
86 40	1.804	3.61	5.41	7.22	9.02	10.82	12.63	14.43	16.24	108.2	216.5	324.7	433.0	541.2
41	.795	.59	.38	.18	8.98	.77	.57	.36	.16	7.7	5.4	3.1	30.8	38.5
42	.786	.57	.36	.14	.93	.72	.50	.29	6.07	7.2	4.3	21.5	28.6	5.8
43	.777	.55	.33	.11	.89	.66	.44	.22	5.99	6.6	3.2	19.9	6.5	3.1
44	.768	.54	.30	.07	.84	.61	.38	.14	.92	6.1	2.2	8.2	4.3	30.4
86 45	1.759	3.52	5.28	7.04	8.80	10.55	12.31	14.07	15.83	105.5	211.1	316.6	422.2	527.7
46	.750	.50	.25	7.00	.75	.50	.25	4.00	.75	5.0	10.0	5.0	20.0	5.0
47	.741	.48	.22	6.96	.71	.45	.19	3.93	.67	4.5	08.9	3.4	17.8	22.3
48	.732	.46	.20	.93	.66	.39	.12	.86	.59	3.9	7.8	1.8	5.7	19.6
49	.723	.45	.17	.89	.62	.34	.06	.78	.51	3.4	6.8	10.1	3.5	6.9
86 50	1.714	3.43	5.14	6.86	8.57	10.28	12.00	13.71	15.43	102.8	205.7	308.5	411.3	514.2
51	.705	.41	.11	.82	.53	.23	1.94	.64	.35	2.3	4.6	6.9	09.2	11.5
52	.696	.39	.09	.78	.48	.18	.87	.57	.26	1.8	3.5	5.3	7.0	08.8
53	.687	.37	.06	.75	.44	.12	.81	.50	.18	1.2	2.4	3.6	4.9	6.1
54	.678	.36	.03	.71	.39	.07	.75	.42	.10	0.7	1.3	2.0	2.7	3.4
86 55	1.669	3.34	5.01	6.68	8.35	10.01	11.68	13.35	15.02	100.1	200.3	300.4	400.5	500.7
56	.660	.32	4.98	.64	.30	9.96	.62	.28	4.94	09.6	199.2	298.8	398.4	498.0
57	.651	.30	.95	.60	.26	.91	.56	.21	.86	9.1	8.1	7.2	6.2	5.3
58	.642	.28	.93	.57	.21	.85	.49	.14	.78	8.5	7.0	5.5	4.0	92.6
59	.633	.27	.90	.53	.17	.80	.43	3.06	.70	8.0	5.9	3.9	1.9	89.9
86 60	1.624	3.25	4.87	6.50	8.12	9.74	11.37	12.99	14.61	97.4	194.9	292.3	389.7	487.2

Lat.	Latitude 86° to 87°—Meridional arcs						Latitude 86°—Coordinates of curvature for the polyconic projection				
	Value of 1''		Sums of seconds for middle latitude 86°30'		Value of 1'		Continuous sums of minutes from latitude 86°00'		Longitude	X	Y
	Meters	"	Meters	Meters	'	Meters	°	'			
86 00	31.026			1861.56							
1	6	1	31.03	.56	1	1 861.6	0	1	129.9	0.0	
2	6	2	62.05	.56	2	3 723.1	2	2	259.7	0.1	
3	6	3	93.08	.57	3	5 584.7	3	3	389.6	0.2	
4	6	4	124.11	.57	4	7 446.3	4	4	519.4	0.3	
86 05	31.026			1861.57							
6	6	5	155.13	.57	5	9 307.8	0	5	649.3	0.5	
7	6	6	186.16	.57	6	11 169.4	6	6	779.2	0.7	
8	6	7	217.18	.57	7	13 031.0	7	7	909.0	0.9	
9	6	8	248.21	.57	8	14 892.5	8	8	1 038.9	1.2	
	6	9	279.24	.57	9	16 754.1	9	9	1 168.7	1.5	
86 10	31.026			1861.57							
11	6	10	310.26	.57	10	18 615.7	0	10	1 298.6	1.9	
12	6	1	341.29	.57	1	20 477.2	15	15	1 947.9	4.2	
13	6	2	372.32	.57	2	22 338.8	20	20	2 597.2	7.5	
14	6	3	403.34	.57	3	24 200.4	25	25	3 246.5	11.8	
	6	4	434.37	.57	4	26 062.0	30	30	3 895.8	17.0	
86 15	31.026			1861.57							
16	6	15	465.40	.58	15	27 923.5	0	35	4 545.0	23.1	
17	6	6	496.42	.58	6	29 785.1	40	40	5 194.3	30.1	
18	6	7	527.45	.58	7	31 646.7	45	45	5 843.6	38.1	
19	6	8	558.48	.58	8	33 508.3	50	50	6 492.8	47.1	
	6	9	589.50	.58	9	35 369.8	55	55	7 142.0	57.0	
86 20	31.026			1861.58							
21	6	20	620.53	.58	20	37 231.4	1	00	7 791.2	67.8	
22	6	1	651.55	.58	1	39 093.0	05	05	8 440.4	79.6	
23	6	2	682.58	.58	2	40 954.6	10	10	9 089.6	92.3	
24	6	3	713.61	.58	3	42 816.2	15	15	9 738.8	106.0	
	6	4	744.63	.58	4	44 677.7	20	20	10 387.9	120.6	
86 25	31.026			1861.58							
26	6	25	775.66	.58	25	46 539.3	1	25	11 037.0	136.1	
27	6	6	806.69	.58	6	48 400.9	30	30	11 686.1	152.6	
28	6	7	837.71	.58	7	50 262.5	35	35	12 335.2	170.0	
29	6	8	868.74	.58	8	52 124.1	40	40	12 984.2	188.4	
	6	9	899.77	.58	9	53 985.7	45	45	13 633.2	207.7	
86 30	31.026			1861.58							
31	6	30	930.79	.59	30	55 847.2	1	50	14 282.2	228.0	
32	6	1	961.82	.59	1	57 708.8	55	55	14 931.2	249.2	
33	6	2	992.85	.59	2	59 570.4	2	00	15 580	271	
34	6	3	1 023.87	.59	3	61 432.0	3	00	23 364	610	
	6	4	1 054.90	.59	4	63 293.6	4	00	31 141	1 085	
86 35	31.026			1861.59							
36	6	35	1 085.92	.59	35	65 155.2	5	00	38 909	1 695	
37	6	6	1 116.95	.59	6	67 016.8	6	00	46 665	2 440	
38	6	7	1 147.98	.59	7	68 878.3	7	00	54 406	3 320	
39	6	8	1 179.00	.59	8	70 739.9	8	00	62 132	4 334	
	6	9	1 210.03	.59	9	72 601.5	9	00	69 838	5 483	
86 40	31.027			1861.59							
41	7	40	1 241.06	.59	40	74 463.1	10	00	77 523	6 766	
42	7	1	1 272.08	.59	1	76 324.7	11	00	85 185	8 182	
43	7	2	1 303.11	.59	2	78 186.3	12	00	92 821	9 732	
44	7	3	1 334.14	.59	3	80 047.9	13	00	100 428	11 414	
	7	4	1 365.16	.59	4	81 909.5	14	00	108 006	13 229	
86 45	31.027			1861.59							
46	7	45	1 396.19	.60	45	83 771.1	15	00	115 550	15 175	
47	7	6	1 427.21	.60	6	85 632.7	16	00	123 060	17 252	
48	7	7	1 458.24	.60	7	87 494.3	17	00	130 532	19 460	
49	7	8	1 489.27	.60	8	89 355.9	18	00	137 965	21 797	
	7	9	1 520.29	.60	9	91 217.5	19	00	145 356	24 264	
86 50	31.027			1861.60							
51	7	50	1 551.32	.60	50	93 079.1	20	00	152 702	26 859	
52	7	1	1 582.35	.60	1	94 940.7	21	00	160 003	29 581	
53	7	2	1 613.37	.60	2	96 802.3	22	00	167 255	32 430	
54	7	3	1 644.40	.60	3	98 663.9	23	00	174 456	35 405	
	7	4	1 675.43	.60	4	100 525.5	24	00	181 604	38 504	
86 55	31.027			1861.60							
56	7	55	1 706.45	.60	55	102 387.1	25	00	188 698	41 728	
57	7	6	1 737.48	.60	6	104 248.7	26	00	195 734	45 075	
58	7	7	1 768.51	.60	7	106 110.3	27	00	202 711	48 543	
59	7	8	1 799.53	.60	8	107 971.9	28	00	209 626	52 133	
60	7	9	1 830.56	.60	9	109 833.5	29	00	216 478	55 843	
	7	60	1 861.58	.60	60	111 695.1	30	00	223 264	59 671	

Latitude 87° to 88°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
87 00	1.624	3.25	4.87	6.50	8.12	9.74	11.37	12.99	14.61	97.4	194.9	292.3	389.7	487.2
1	.615	.23	.84	.46	.08	.69	.31	.92	.53	6.9	3.3	90.7	7.6	4.5
2	.606	.21	.82	.42	.03	.63	.24	.85	.45	6.3	2.7	89.0	5.4	81.7
3	.597	.19	.79	.39	.798	.58	.18	.77	.37	5.8	1.6	7.4	3.2	79.0
4	.588	.18	.76	.35	.94	.53	.11	.70	.29	5.3	90.5	5.8	81.1	6.3
87 05	1.579	3.16	4.74	6.31	7.89	9.47	11.05	12.63	14.21	94.7	189.5	284.2	378.9	473.6
6	.570	.14	.71	.28	.85	.42	0.99	.56	.13	4.2	8.4	2.6	6.7	70.9
7	.561	.12	.68	.24	.80	.36	.92	.49	4.05	3.6	7.3	80.9	4.6	68.2
8	.552	.10	.65	.21	.76	.31	.86	.41	3.96	3.1	6.2	79.3	2.4	5.5
9	.543	.09	.63	.17	.71	.26	.80	.34	.88	2.6	5.1	7.7	70.3	2.8
87 10	1.534	3.07	4.60	6.13	7.67	9.20	10.74	12.27	13.80	92.0	184.0	276.1	368.1	460.1
11	.525	.05	.57	.10	.62	.15	.67	.20	.72	1.5	3.0	4.4	5.9	57.4
12	.516	.03	.55	.06	.58	.09	.61	.13	.64	0.9	1.9	2.8	3.8	4.7
13	.507	.01	.52	6.03	.53	9.04	.55	2.05	.56	90.4	80.8	71.2	61.6	52.0
14	.498	3.00	.49	5.99	.49	8.99	.48	1.98	.48	89.9	79.7	69.6	59.4	49.3
87 15	1.489	2.98	4.47	5.95	7.44	8.93	10.42	11.91	13.40	89.3	178.6	268.0	357.3	446.6
16	.480	.96	.44	.92	.40	.88	.36	.84	.32	8.8	7.6	6.3	5.1	3.9
17	.471	.94	.41	.88	.35	.82	.29	.77	.24	8.2	6.5	4.7	3.0	41.2
18	.462	.92	.38	.85	.31	.77	.23	.69	.15	7.7	5.4	3.1	50.8	38.5
19	.453	.91	.36	.81	.26	.72	.17	.62	3.07	7.2	4.3	61.5	48.6	5.8
87 20	1.444	2.89	4.33	5.77	7.22	8.66	10.11	11.55	12.99	86.6	173.2	259.8	346.5	433.1
21	.435	.87	.30	.74	.17	.61	10.04	.48	.91	6.1	2.1	8.2	4.3	30.4
22	.426	.85	.28	.70	.13	.55	9.98	.41	.83	5.5	1.1	6.6	2.1	27.7
23	.417	.83	.25	.67	.08	.50	.92	.33	.75	5.0	70.0	5.0	40.0	5.0
24	.408	.82	.22	.63	7.04	.45	.85	.26	.67	4.5	68.9	3.4	37.8	22.3
87 25	1.399	2.80	4.20	5.59	6.99	8.39	9.79	11.19	12.59	83.9	167.8	251.7	335.6	419.6
26	.389	.78	.17	.56	.95	.34	.73	.12	.50	3.4	6.7	50.1	3.5	6.8
27	.380	.76	.14	.52	.90	.28	.66	1.05	.42	2.8	5.7	48.5	31.3	4.1
28	.371	.74	.11	.49	.86	.23	.60	0.97	.34	2.3	4.6	6.9	29.2	11.4
29	.362	.72	.09	.45	.81	.17	.54	.90	.26	1.7	3.5	5.2	7.0	08.7
87 30	1.353	2.71	4.06	5.41	6.77	8.12	9.47	10.83	12.18	81.2	162.4	243.6	324.8	406.0
31	.344	.69	.03	.38	.72	.07	.41	.76	.10	0.7	1.3	2.0	2.7	3.3
32	.335	.67	4.01	.34	.68	8.01	.35	.69	2.02	80.1	60.2	40.4	20.5	400.6
33	.326	.65	3.98	.31	.63	7.96	.28	.61	1.94	79.6	59.2	38.7	18.3	397.9
34	.317	.63	.95	.27	.58	.90	.22	.54	.86	9.0	8.1	7.1	6.2	5.2
87 35	1.308	2.62	3.93	5.23	6.54	7.85	9.16	10.47	11.77	78.5	157.0	235.5	314.0	392.5
36	.299	.60	.90	.20	.50	.80	.10	.40	.69	8.0	5.9	3.9	11.8	89.8
37	.290	.58	.87	.16	.45	.74	9.03	.33	.61	7.4	4.8	2.3	09.7	7.1
38	.281	.56	.84	.13	.41	.69	8.97	.25	.53	6.9	3.8	30.6	7.5	4.4
39	.272	.54	.82	.09	.36	.63	.91	.18	.45	6.3	2.7	29.0	5.3	81.7
87 40	1.263	2.53	3.79	5.05	6.32	7.58	8.84	10.11	11.37	75.8	151.6	227.4	303.2	379.0
41	.254	.51	.76	5.02	.27	.53	.78	10.03	.29	5.3	50.5	5.8	301.0	6.3
42	.245	.49	.74	4.98	.23	.47	.72	9.96	.21	4.7	49.4	4.1	298.8	3.6
43	.236	.47	.71	.95	.18	.42	.65	.89	.13	4.2	8.3	2.5	6.7	70.9
44	.227	.45	.68	.91	.14	.36	.59	.82	1.05	3.6	7.3	20.9	4.5	68.1
87 45	1.218	2.44	3.65	4.87	6.09	7.31	8.53	9.74	10.96	73.1	146.2	219.3	292.4	365.4
46	.209	.42	.63	.84	.05	.26	.46	.67	.88	2.6	5.1	7.6	90.2	2.7
47	.200	.40	.60	.80	6.00	.20	.40	.60	.80	2.0	4.0	6.0	88.0	60.0
48	.191	.38	.57	.76	5.96	.15	.34	.53	.72	1.5	2.9	4.4	5.9	57.3
49	.182	.36	.55	.73	.91	.09	.27	.46	.64	0.9	1.8	2.8	3.7	4.6
87 50	1.173	2.35	3.52	4.69	5.87	7.04	8.21	9.38	10.56	70.4	140.8	211.1	281.5	351.9
51	.164	.33	.49	.66	.82	6.98	.15	.31	.48	69.8	39.7	09.5	79.4	49.2
52	.155	.31	.47	.62	.78	.93	.08	.24	.39	9.3	8.6	7.9	7.2	6.5
53	.146	.29	.44	.58	.73	.88	8.02	.17	.31	8.8	7.5	6.3	5.0	3.8
54	.137	.27	.41	.55	.69	.82	7.96	.10	.23	8.2	6.4	4.7	2.9	41.1
87 55	1.128	2.26	3.38	4.51	5.64	6.77	7.90	9.02	10.15	67.7	135.4	203.0	270.7	338.4
56	.119	.24	.36	.48	.60	.71	.83	8.95	10.07	7.1	4.3	201.4	68.5	5.7
57	.110	.22	.33	.44	.55	.66	.77	.88	9.99	6.6	3.2	199.8	6.4	3.0
58	.101	.20	.30	.40	.50	.61	.71	.81	.91	6.1	2.1	8.2	4.2	30.3
59	.092	.18	.28	.37	.46	.55	.64	.74	.83	5.5	31.0	6.5	62.0	27.6
87 60	1.083	2.17	3.25	4.33	5.41	6.50	7.58	8.66	9.75	65.0	129.9	194.9	259.9	324.9

Lat.	Latitude 87° to 88°—Meridional arcs						Latitude 87°—Coordinates of curvature for the polyconic projection		
	Value of 1''	Sums of seconds for middle latitude 87°30'		Value of 1'	Continuous sums of minutes from latitude 87°00'		Longitude	X	Y
		Meters	"		Meters	'			
87 00	31.027			1861.60			0 1	97.4	0.0
1	7	1	31.03	.60	1	861.6	2	194.9	0.1
2	7	2	62.05	.60	2	723.2	3	292.3	0.1
3	7	3	93.08	.61	3	584.8	4	389.7	0.2
4	7	4	124.11	.61	4	446.4			
87 05	31.027	5	155.13	1861.61	5	9308.0	0 5	487.2	0.4
6	7	6	186.16	.61	6	1169.6	6	584.6	0.5
7	7	7	217.19	.61	7	13031.2	7	682.0	0.7
8	7	8	248.22	.61	8	14892.9	8	779.5	0.9
9	7	9	279.24	.61	9	16754.5	9	876.9	1.1
87 10	31.027	10	310.27	1861.61	10	18616.1	0 10	974.3	1.4
11	7	1	341.30	.61	1	20477.7	15	1461.5	3.2
12	7	2	372.32	.61	2	22339.3	20	1948.6	5.7
13	7	3	403.35	.61	3	24200.9	25	2435.7	8.8
14	7	4	434.38	.61	4	26062.5	30	2922.9	12.7
87 15	31.027	15	465.40	1861.61	15	27924.1	0 35	3410.0	17.3
16	7	6	496.43	.61	6	29785.7	40	3897.7	22.7
17	7	7	527.46	.61	7	31647.4	45	4384.3	28.7
18	7	8	558.49	.61	8	33509.0	50	4871.4	35.4
19	7	9	589.51	.61	9	35370.6	55	5358.5	42.8
87 20	31.027	20	620.54	1861.61	20	37232.2	1 00	5845.5	50.9
21	7	1	651.57	.62	1	39093.8	05	6332.6	59.8
22	7	2	682.59	.62	2	40955.4	10	6819.7	69.3
23	7	3	713.62	.62	3	42817.0	15	7306.7	79.6
24	7	4	744.65	.62	4	44678.7	20	7793.7	90.6
87 25	31.027	25	775.67	1861.62	25	46540.3	1 25	8280.8	102.2
26	7	6	806.70	.62	6	48401.9	30	8767.8	114.6
27	7	7	837.73	.62	7	50263.5	35	9254.7	127.7
28	7	8	868.76	.62	8	52125.1	40	9741.7	141.5
29	7	9	899.78	.62	9	53986.8	45	10228.6	156.0
87 30	31.027	30	930.81	1861.62	30	55848.4	1 50	10715.5	171.2
31	7	1	961.84	.62	1	57710.0	55	11202.4	187.1
32	7	2	992.86	.62	2	59571.6	2 00	11689	204
33	7	3	1023.89	.62	3	61433.2	3 00	17529	459
34	7	4	1054.92	.62	4	63294.8	4 00	23364	815
87 35	31.027	35	1085.94	1861.62	35	65156.5	5 00	29192	1273
36	7	6	1116.97	.62	6	67018.1	6 00	35011	1832
37	7	7	1148.00	.62	7	68879.7	7 00	40819	2493
38	7	8	1179.03	.62	8	70741.3	8 00	46615	3255
39	7	9	1210.05	.62	9	72603.0	9 00	52397	4118
87 40	31.027	40	1241.08	1861.62	40	74464.6	10 00	58163	5082
41	7	1	1272.11	.62	1	76326.2	11 00	63911	6145
42	7	2	1303.13	.63	2	78187.8	12 00	69640	7309
43	7	3	1334.16	.63	3	80049.5	13 00	75347	8573
44	7	4	1365.19	.63	4	81911.1	14 00	81032	9936
87 45	31.027	45	1396.21	1861.63	45	83772.7	15 00	86692	11397
46	7	6	1427.24	.63	6	85634.3	16 00	92326	12958
47	7	7	1458.27	.63	7	87496.0	17 00	97932	14616
48	7	8	1489.30	.63	8	89357.6	18 00	103507	16371
49	7	9	1520.32	.63	9	91219.2	19 00	109052	18223
87 50	31.027	50	1551.35	1861.63	50	93080.9	20 00	114563	20172
51	7	1	1582.38	.63	1	94942.5	21 00	120040	22217
52	7	2	1613.40	.63	2	96804.1	22 00	125480	24357
53	7	3	1644.43	.63	3	98665.7	23 00	130882	26591
54	7	4	1675.46	.63	4	100527.4	24 00	136244	28919
87 55	31.027	55	1706.48	1861.63	55	102389.0	25 00	141565	31340
56	7	6	1737.51	.63	6	104250.6	26 00	146843	33853
57	7	7	1768.54	.63	7	106112.3	27 00	152076	36458
58	7	8	1799.57	.63	8	107973.9	28 00	157263	39154
59	7	9	1830.59	.63	9	109835.5	29 00	162402	41940
87 60	31.027	60	1861.62	1861.63	60	111697.2	30 00	167492	44815

Latitude 88° to 89°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
88 00	1.083	2.17	3.25	4.33	5.41	6.50	7.58	8.66	9.75	65.0	129.9	194.9	259.9	324.9
01	.074	.15	.22	.29	.37	.44	.52	.59	.66	4.4	8.9	3.3	7.7	22.1
02	.065	.13	.19	.26	.32	.39	.45	.52	.58	3.9	7.8	1.7	5.5	19.4
03	.056	.11	.17	.22	.28	.33	.39	.45	.50	3.3	6.7	90.0	3.4	6.7
04	.047	.09	.14	.19	.23	.28	.33	.37	.42	2.8	5.6	88.4	51.2	4.0
88 05	1.038	2.08	3.11	4.15	5.19	6.23	7.26	8.30	9.34	62.3	124.5	186.8	249.1	311.3
06	.029	.06	.09	.11	.14	.17	.20	.23	.26	1.7	3.4	5.2	6.9	08.6
07	.020	.04	.06	.08	.10	.12	.14	.16	.18	1.2	2.4	3.5	4.7	5.9
08	.011	.02	.03	.04	.05	.06	.07	.09	.10	0.6	1.3	1.9	2.6	3.2
09	1.002	2.00	3.01	4.01	5.01	6.01	7.01	8.01	9.01	60.1	20.2	80.3	40.4	300.5
88 10	0.993	1.99	2.98	3.97	4.96	5.96	6.95	7.94	8.93	59.6	119.1	178.7	238.2	297.8
11	.984	.97	.95	.93	.92	.90	.89	.87	.85	9.0	8.0	7.0	6.1	5.1
12	.975	.95	.92	.90	.87	.85	.82	.80	.77	8.5	6.9	5.4	3.9	92.4
13	.966	.93	.90	.86	.83	.79	.76	.73	.69	7.9	5.9	3.8	31.7	89.7
14	.957	.91	.87	.83	.78	.74	.70	.65	.61	7.4	4.8	2.2	29.6	7.0
88 15	0.948	1.90	2.84	3.79	4.74	5.69	6.63	7.58	8.53	56.9	113.7	170.6	227.4	284.3
16	.938	.88	.82	.75	.69	.63	.57	.51	.45	6.3	2.6	68.9	5.2	81.5
17	.929	.86	.79	.72	.65	.58	.51	.43	.36	5.8	1.5	7.3	3.1	78.8
18	.920	.84	.76	.68	.60	.52	.44	.36	.28	5.2	10.5	5.7	20.9	6.1
19	.911	.82	.73	.65	.56	.47	.38	.29	.20	4.7	09.4	4.1	18.7	3.4
88 20	0.902	1.80	2.71	3.61	4.51	5.41	6.32	7.22	8.12	54.1	108.3	162.4	216.6	270.7
21	.893	.79	.68	.57	.47	.36	.25	.15	8.04	3.6	7.2	60.8	4.4	68.0
22	.884	.77	.65	.54	.42	.31	.19	.07	7.96	3.1	6.1	59.2	2.2	5.3
23	.875	.75	.63	.50	.38	.25	.13	7.00	.88	2.5	5.0	7.6	10.1	62.6
24	.866	.73	.60	.47	.33	.20	.06	6.93	.80	2.0	4.0	5.9	07.9	59.9
88 25	0.857	1.71	2.57	3.43	4.29	5.14	6.00	6.86	7.72	51.4	102.9	154.3	205.7	257.2
26	.848	.70	.55	.39	.24	.09	5.94	.79	.63	0.9	1.8	2.7	3.6	4.5
27	.839	.68	.52	.36	.20	5.04	.88	.71	.55	50.4	100.7	51.1	201.4	51.8
28	.830	.66	.49	.32	.15	4.98	.81	.64	.47	49.8	99.6	49.4	199.3	49.1
29	.821	.64	.46	.29	.11	.93	.75	.57	.39	9.3	8.5	7.8	7.1	6.4
88 30	0.812	1.62	2.44	3.25	4.06	4.87	5.69	6.50	7.31	48.7	97.5	146.2	194.9	243.7
31	.803	.61	.41	.21	4.02	.82	.62	.42	.23	8.2	6.4	4.6	2.8	40.9
32	.794	.59	.38	.18	3.97	.76	.56	.35	.15	7.6	5.3	2.9	90.6	38.2
33	.785	.57	.36	.14	.93	.71	.50	.28	7.07	7.1	4.2	41.3	88.4	5.5
34	.776	.55	.33	.10	.88	.66	.43	.21	6.98	6.6	3.1	39.7	6.3	2.8
88 35	0.767	1.53	2.30	3.07	3.84	4.60	5.37	6.14	6.90	46.0	92.0	138.1	184.1	230.1
36	.758	.52	.27	.03	.79	.55	.31	.06	.82	5.5	91.0	6.4	81.9	27.4
37	.749	.50	.25	3.00	.75	.49	.24	5.99	.74	4.9	89.9	4.8	79.8	4.7
38	.740	.48	.22	2.96	.70	.44	.18	.92	.66	4.4	8.8	3.2	7.6	22.0
39	.731	.46	.19	.92	.65	.39	.12	.85	.58	3.9	7.7	1.6	5.4	19.3
88 40	0.722	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	43.3	86.6	130.0	173.3	216.6
41	.713	.43	.14	.85	.57	.28	4.99	.70	.42	2.8	5.6	28.3	71.1	3.9
42	.704	.41	.11	.82	.52	.22	.93	.63	.34	2.2	4.5	6.7	68.9	11.2
43	.695	.39	.09	.78	.48	.17	.86	.56	.26	1.7	3.4	5.1	6.8	08.5
44	.686	.37	.06	.74	.43	.12	.80	.49	.17	1.2	2.3	3.5	4.6	5.8
88 45	0.677	1.35	2.03	2.71	3.39	4.06	4.74	5.42	6.09	40.6	81.2	121.8	162.4	203.1
46	.668	.34	2.00	.67	.34	4.01	.67	.34	6.01	40.1	80.1	20.2	60.3	200.3
47	.659	.32	1.98	.63	.29	3.95	.61	.27	5.93	39.5	79.1	18.6	58.1	197.6
48	.650	.30	.95	.60	.25	.90	.55	.20	.85	9.0	8.0	7.0	5.9	4.9
49	.641	.28	.92	.56	.20	.84	.48	.13	.77	8.4	6.9	5.3	3.8	92.2
88 50	0.632	1.26	1.90	2.53	3.16	3.79	4.42	5.05	5.69	37.9	75.8	113.7	151.6	189.5
51	.623	.25	.87	.49	.11	.74	.36	4.98	.60	7.4	4.7	2.1	49.4	6.8
52	.614	.23	.84	.45	.07	.68	.30	.91	.53	6.8	3.6	10.5	7.3	4.1
53	.605	.21	.81	.42	3.02	.63	.23	.84	.44	6.3	2.6	08.8	5.1	81.4
54	.596	.19	.79	.38	2.98	.57	.17	.77	.36	5.7	1.5	7.2	3.0	78.7
88 55	0.587	1.17	1.76	2.35	2.93	3.52	4.11	4.69	5.28	35.2	70.4	105.6	140.8	176.0
56	.578	.16	.73	.31	.89	.47	4.04	.62	.20	4.7	69.3	4.0	38.6	3.3
57	.569	.14	.71	.27	.84	.41	3.98	.55	.12	4.1	8.2	2.3	6.5	70.6
58	.560	.12	.68	.24	.80	.36	.92	.48	5.04	3.6	7.1	100.7	4.3	67.9
59	.551	.10	.65	.20	.75	.30	.85	.41	4.96	3.0	6.1	99.1	2.1	5.2
88 60	0.542	1.08	1.62	2.17	2.71	3.25	3.79	4.33	4.87	32.5	65.0	97.5	130.0	162.5

Lat.	Latitude 88° to 89°—Meridional arcs					Latitude 88°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 88°30'		Value of 1'	Continuous sums of minutes from latitude 88°00'		Longitude	X	Y
° ' "	Meters	''	Meters	Meters	'	Meters	° ' "	Meters	Meters
88 00	31.027			1861.63			0 1	65.0	0.0
1	7	1	31.03	.63	1	1 861.6	2	130.0	0.0
2	7	2	62.05	.63	2	3 723.3	3	194.9	0.1
3	7	3	93.08	.63	3	5 584.9	4	259.9	0.2
4	7	4	124.11	.63	4	7 446.5			
88 05	31.027	5	155.14	1861.63	5	9 308.2	0 5	324.9	0.2
6	7	6	186.16	.63	6	11 169.8	6	389.8	0.3
7	7	7	217.19	.64	7	13 031.4	7	454.8	0.5
8	7	8	248.22	.64	8	14 893.1	8	519.8	0.6
9	7	9	279.24	.64	9	16 754.7	9	584.7	0.8
88 10	31.027	10	310.27	1861.64	10	18 616.4	0 10	649.7	0.9
11	7	1	341.30	.64	1	20 478.0	15	974.6	2.1
12	7	2	372.33	.64	2	22 339.6	20	1 299.4	3.8
13	7	3	403.35	.64	3	24 201.3	25	1 624.3	5.9
14	7	4	434.38	.64	4	26 062.9	30	1 949.1	8.5
88 15	31.027	15	465.41	1861.64	15	27 924.5	0 35	2 273.9	11.6
16	7	6	496.44	.64	6	29 786.2	40	2 598.8	15.1
17	7	7	527.46	.64	7	31 647.8	45	2 923.6	19.1
18	7	8	558.49	.64	8	33 509.5	50	3 248.4	23.6
19	7	9	589.52	.64	9	35 371.1	55	3 573.2	28.6
88 20	31.027	20	620.55	1861.64	20	37 232.7	1 00	3 898.1	34.0
21	7	1	651.57	.64	1	39 094.4	05	4 222.9	39.9
22	7	2	682.60	.64	2	40 956.0	10	4 547.6	46.3
23	7	3	713.63	.64	3	42 817.7	15	4 872.4	53.1
24	7	4	744.65	.64	4	44 679.3	20	5 197.2	60.4
88 25	31.027	25	775.68	1861.64	25	46 540.9	1 25	5 521.9	68.2
26	7	6	806.71	.64	6	48 402.6	30	5 846.7	76.5
27	7	7	837.74	.64	7	50 264.2	35	6 171.4	85.2
28	7	8	868.76	.64	8	52 125.9	40	6 496.1	94.4
29	7	9	899.79	.64	9	53 987.5	45	6 820.8	104.1
88 30	31.027	30	930.82	1861.64	30	55 849.1	1 50	7 145.5	114.3
31	7	1	961.85	.64	1	57 710.8	55	7 470.2	124.9
32	7	2	992.87	.64	2	59 572.4	2 00	7 795	136
33	7	3	1 023.90	.64	3	61 434.1	3 00	11 689	306
34	7	4	1 054.93	.64	4	63 295.7	4 00	15 580	544
88 35	31.027	35	1 085.95	1861.64	35	65 157.4	5 00	19 466	849
36	7	6	1 116.98	.64	6	67 019.0	6 00	23 347	1 223
37	7	7	1 148.01	.64	7	68 880.7	7 00	27 220	1 664
38	7	8	1 179.04	.64	8	70 742.3	8 00	31 085	2 172
39	7	9	1 210.06	.65	9	72 603.9	9 00	34 940	2 748
88 40	31.027	40	1 241.09	1861.65	40	74 465.6	10 00	38 785	3 391
41	7	1	1 272.12	.65	1	76 327.2	11 00	42 618	4 101
42	7	2	1 303.15	.65	2	78 188.9	12 00	46 438	4 878
43	7	3	1 334.17	.65	3	80 050.5	13 00	50 244	5 721
44	7	4	1 365.20	.65	4	81 912.2	14 00	54 035	6 631
88 45	31.027	45	1 396.23	1861.65	45	83 773.8	15 00	57 809	7 606
46	7	6	1 427.26	.65	6	85 635.5	16 00	61 565	8 647
47	7	7	1 458.28	.65	7	87 497.1	17 00	65 303	9 754
48	7	8	1 489.31	.65	8	89 358.8	18 00	69 021	10 925
49	7	9	1 520.34	.65	9	91 220.4	19 00	72 718	12 161
88 50	31.027	50	1 551.37	1861.65	50	93 082.1	20 00	76 393	13 462
51	7	1	1 582.39	.65	1	94 943.7	21 00	80 045	14 826
52	7	2	1 613.42	.65	2	96 805.4	22 00	83 672	16 254
53	7	3	1 644.45	.65	3	98 667.0	23 00	87 274	17 745
54	7	4	1 675.48	.65	4	100 528.7	24 00	90 849	19 298
88 55	31.027	55	1 706.50	1861.65	55	102 390.3	25 00	94 397	20 914
56	7	6	1 737.53	.65	6	104 252.0	26 00	97 915	22 591
57	7	7	1 768.56	.65	7	106 113.6	27 00	101 405	24 330
58	7	8	1 799.59	.65	8	107 975.3	28 00	104 863	26 129
59	7	9	1 830.61	.65	9	109 836.9	29 00	108 289	27 988
88 60	31.027	60	1 861.64	1861.65	60	111 698.6	30 00	111 683	29 906

Latitude 89° to 90°—Arcs of the parallel in meters														
Lat.	1''	2''	3''	4''	5''	6''	7''	8''	9''	1'	2'	3'	4'	5'
89 00	0.542	1.08	1.62	2.17	2.71	3.25	3.79	4.33	4.87	32.5	65.0	97.5	130.0	162.5
89 01	.532	.06	.60	.13	.66	.19	.73	.26	.79	1.9	3.9	5.8	27.8	59.7
89 02	.523	.05	.57	.09	.62	.14	.66	.19	.71	1.4	2.8	4.2	5.6	7.0
89 03	.514	.03	.54	.06	.57	.09	.60	.11	.63	0.9	1.7	2.6	3.5	4.3
89 04	.505	1.01	.52	2.02	.53	3.03	.54	4.04	.55	30.3	60.6	91.0	21.3	51.6
89 05	0.496	0.99	1.49	1.99	2.48	2.98	3.47	3.97	4.47	29.8	59.6	89.3	119.1	148.9
89 06	.487	.97	.46	.95	.44	.92	.41	.90	.39	9.2	8.5	7.7	7.0	6.2
89 07	.478	.96	.43	.91	.39	.87	.35	.83	.30	8.7	7.4	6.1	4.8	3.5
89 08	.469	.94	.41	.88	.35	.82	.29	.75	.22	8.2	6.3	4.5	2.6	40.8
89 09	.460	.92	.38	.84	.30	.76	.22	.68	.14	7.6	5.2	2.9	10.5	38.1
89 10	0.451	0.90	1.35	1.81	2.26	2.71	3.16	3.61	4.06	27.1	54.2	81.2	108.3	135.4
89 11	.442	.88	.33	.77	.21	.65	.10	.54	3.98	6.5	3.1	79.6	6.1	2.7
89 12	.433	.87	.30	.73	.17	.60	3.03	.47	.90	6.0	2.0	8.0	4.0	30.0
89 13	.424	.85	.27	.70	.12	.55	2.97	.39	.82	5.5	50.9	6.4	101.8	27.3
89 14	.415	.83	.24	.66	.08	.49	.91	.32	.74	4.9	49.8	4.7	99.6	4.5
89 15	0.406	0.81	1.22	1.62	2.03	2.44	2.84	3.25	3.65	24.4	48.7	73.1	97.5	121.8
89 16	.397	.79	.19	.59	1.99	.38	.78	.18	.57	3.8	7.7	71.5	5.3	19.1
89 17	.388	.78	.16	.55	.94	.33	.72	.10	.49	3.3	6.6	69.9	3.1	6.4
89 18	.379	.76	.14	.52	.90	.27	.65	3.03	.41	2.7	5.5	8.2	91.0	3.7
89 19	.370	.74	.11	.48	.85	.22	.59	2.96	.33	2.2	4.4	6.6	88.8	11.0
89 20	0.361	0.72	1.08	1.44	1.81	2.17	2.53	2.89	3.25	21.7	43.3	65.0	86.6	108.3
89 21	.352	.70	.06	.41	.76	.12	.46	.82	.17	1.1	2.2	3.4	4.5	5.6
89 22	.343	.69	.03	.37	.72	.06	.40	.74	.09	0.6	1.2	1.7	2.3	2.9
89 23	.334	.67	1.00	.34	.67	2.00	.34	.67	3.01	20.0	40.1	60.1	80.1	100.2
89 24	.325	.65	0.97	.30	.63	1.95	.28	.60	2.93	19.5	39.0	58.5	78.0	97.5
89 25	0.316	0.63	0.95	1.26	1.58	1.90	2.21	2.53	2.84	19.0	37.9	56.9	75.8	94.8
89 26	.307	.61	.92	.23	.53	.84	.15	.46	.76	8.4	6.8	5.2	3.6	92.1
89 27	.298	.60	.89	.19	.49	.79	.09	.38	.68	7.9	5.7	3.6	71.5	89.4
89 28	.289	.58	.87	.15	.44	.73	2.02	.31	.60	7.3	4.7	2.0	69.3	6.6
89 29	.280	.56	.84	.12	.40	.68	1.96	.24	.52	6.8	3.6	50.4	7.1	3.9
89 30	0.271	0.54	0.81	1.08	1.35	1.62	1.89	2.17	2.44	16.2	32.5	48.7	65.0	81.2
89 31	.262	.52	.78	.05	.31	.57	.83	.09	.36	5.7	1.4	7.1	2.8	78.5
89 32	.253	.50	.76	1.01	.26	.52	.77	2.02	.27	5.2	30.3	5.5	60.7	5.8
89 33	.244	.49	.73	0.97	.22	.46	.71	1.95	.19	4.6	29.2	3.9	58.5	3.1
89 34	.235	.47	.70	.94	.17	.41	.64	.88	.11	4.1	8.2	2.2	6.3	70.4
89 35	0.226	0.45	0.68	0.90	1.13	1.35	1.58	1.81	2.03	13.5	27.1	40.6	54.2	67.7
89 36	.217	.43	.65	.87	.08	.30	.52	.73	1.95	3.0	6.0	39.0	52.0	5.0
89 37	.208	.41	.62	.83	1.04	.25	.45	.66	.87	2.5	4.9	7.4	49.8	62.3
89 38	.199	.40	.60	.79	0.99	.19	.39	.59	.79	1.9	3.8	5.7	7.7	59.6
89 39	.190	.38	.57	.76	.95	.14	.33	.52	.71	1.4	2.7	4.1	5.5	6.9
89 40	0.181	0.36	0.54	0.72	0.90	1.08	1.26	1.45	1.63	10.8	21.7	32.5	43.3	54.2
89 41	.171	.34	.51	.69	.86	1.03	.20	.37	.54	10.3	20.6	30.9	41.2	51.4
89 42	.162	.32	.49	.65	.81	0.97	.14	.30	.46	9.7	19.5	29.2	39.0	48.7
89 43	.153	.31	.46	.61	.77	.92	.07	.23	.38	9.2	8.4	7.6	6.8	6.0
89 44	.144	.29	.43	.58	.72	.87	1.01	.15	.30	8.7	7.3	6.0	4.7	3.3
89 45	0.135	0.27	0.41	0.54	0.68	0.81	0.95	1.08	1.22	8.1	16.2	24.4	32.5	40.6
89 46	.126	.25	.38	.51	.63	.76	.88	1.01	.14	7.6	5.2	2.7	30.3	37.9
89 47	.117	.23	.35	.47	.59	.70	.82	0.94	1.06	7.0	4.1	21.1	28.2	5.2
89 48	.108	.22	.32	.43	.54	.65	.76	.87	0.98	6.5	3.0	19.5	6.0	32.5
89 49	.099	.20	.30	.40	.50	.60	.70	.79	.89	6.0	1.9	7.9	3.8	29.8
89 50	0.090	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	5.4	10.8	16.2	21.7	27.1
89 51	.081	.16	.24	.33	.41	.49	.57	.65	.73	4.9	9.7	4.6	19.5	4.4
89 52	.072	.14	.22	.29	.36	.43	.51	.58	.65	4.3	8.7	3.0	7.3	21.7
89 53	.063	.13	.19	.25	.32	.38	.44	.51	.57	3.8	7.6	11.4	5.2	19.0
89 54	.054	.11	.16	.22	.27	.32	.38	.43	.49	3.2	6.5	9.7	3.0	6.2
89 55	0.045	0.09	0.14	0.18	0.23	0.27	0.31	0.36	0.41	2.7	5.4	8.1	10.8	13.5
89 56	.036	.07	.11	.14	.18	.22	.25	.29	.32	2.2	4.3	6.5	8.7	10.8
89 57	.027	.05	.08	.11	.14	.16	.19	.22	.24	1.6	3.2	4.9	6.5	8.1
89 58	.018	.04	.05	.07	.09	.11	.13	.14	.16	1.1	2.2	3.2	4.3	5.4
89 59	.009	.02	.03	.04	.05	.05	.06	.07	.08	0.5	1.1	1.6	2.2	2.7
89 60	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0

Lat.	Latitude 89° to 90°—Meridional arcs					Latitude 89°—Coordinates of curvature for the polyconic projection			
	Value of 1''	Sums of seconds for middle latitude 89°30'		Value of 1'	Continuous sums of minutes from latitude 89°00'		Longitude	X	Y
° ' "	Meters	"	Meters	Meters	'	Meters	° ' "	Meters	Meters
89 00	31.027			1861.65			0 0 0		
1	8	1	31.03	.65	1	861.7	0 1	32.5	0.0
2	8	2	62.05	.65	2	3 723.3	2	65.0	0.0
3	8	3	93.08	.65	3	5 585.0	3	97.5	0.0
4	8	4	124.11	.65	4	7 446.6	4	130.0	0.1
89 05	31.028	5	155.14	1861.65	5	9 308.3	0 5	162.4	0.1
6	8	6	186.16	.65	6	11 169.9	6	194.9	0.2
7	8	7	217.19	.65	7	13 031.6	7	227.4	0.2
8	8	8	248.22	.65	8	14 893.2	8	259.9	0.3
9	8	9	279.25	.65	9	16 754.9	9	292.4	0.4
89 10	31.028	10	310.28	1861.65	10	18 616.5	0 10	324.9	0.5
11	8	1	341.30	.65	1	20 478.2	15	487.3	1.1
12	8	2	372.33	.65	2	22 339.8	20	649.8	1.9
13	8	3	403.36	.65	3	24 201.5	25	812.2	3.0
14	8	4	434.39	.65	4	26 063.1	30	974.7	4.3
89 15	31.028	15	465.41	1861.65	15	27 924.8	0 35	1 137.1	5.8
16	8	6	496.44	.65	6	29 786.4	40	1 299.6	7.6
17	8	7	527.47	.65	7	31 648.1	45	1 462.0	9.6
18	8	8	558.49	.65	8	33 509.7	50	1 624.5	11.8
19	8	9	589.52	.65	9	35 371.4	55	1 786.9	14.3
89 20	31.028	20	620.55	1861.65	20	37 233.0	1 00	1 949.3	17.0
21	8	1	651.58	.65	1	39 094.7	05	2 111.7	20.0
22	8	2	682.60	.65	2	40 956.3	10	2 274.2	23.2
23	8	3	713.63	.65	3	42 818.0	15	2 436.6	26.6
24	8	4	744.66	.65	4	44 679.6	20	2 599.0	30.2
89 25	31.028	25	775.69	1861.65	25	46 541.3	1 25	2 761.4	34.1
26	8	6	806.71	.65	6	48 403.0	30	2 923.8	38.3
27	8	7	837.74	.65	7	50 264.6	35	3 086.2	42.6
28	8	8	868.77	.65	8	52 126.3	40	3 248.6	47.3
29	8	9	899.80	.65	9	53 987.9	45	3 411.0	52.1
89 30	31.028	30	930.83	1861.65	30	55 849.6	1 50	3 573.3	57.2
31	8	1	961.85	.65	1	57 711.2	55	3 735.7	62.5
32	8	2	992.88	.65	2	59 572.9	2 00	3 898	68
33	8	3	1 023.91	.65	3	61 434.5	3 00	5 846	153
34	8	4	1 054.94	.65	4	63 296.2	4 00	7 791	272
89 35	31.028	35	1 085.96	1861.65	35	65 157.8	5 00	9 735	425
36	8	6	1 116.99	.65	6	67 019.5	6 00	11 675	612
37	8	7	1 148.02	.65	7	68 881.2	7 00	13 612	832
38	8	8	1 179.05	.65	8	70 742.8	8 00	15 545	1 087
39	8	9	1 210.07	.65	9	72 604.5	9 00	17 473	1 375
89 40	31.028	40	1 241.10	1861.66	40	74 466.1	10 00	19 395	1 697
41	8	1	1 272.13	.66	1	76 327.8	11 00	21 312	2 052
42	8	2	1 303.16	.66	2	78 189.4	12 00	23 222	2 440
43	8	3	1 334.18	.66	3	80 051.1	13 00	25 126	2 862
44	8	4	1 365.21	.66	4	81 912.7	14 00	27 021	3 317
89 45	31.028	45	1 396.24	1861.66	45	83 774.4	15 00	28 908	3 805
46	8	6	1 427.27	.66	6	85 636.1	16 00	30 787	4 326
47	8	7	1 458.29	.66	7	87 497.7	17 00	32 656	4 880
48	8	8	1 489.32	.66	8	89 359.4	18 00	34 515	5 466
49	8	9	1 520.35	.66	9	91 221.0	19 00	36 364	6 084
89 50	31.028	50	1 551.38	1861.66	50	93 082.7	20 00	38 202	6 735
51	8	1	1 582.40	.66	1	94 944.3	21 00	40 028	7 417
52	8	2	1 613.43	.66	2	96 806.0	22 00	41 841	8 132
53	8	3	1 644.46	.66	3	98 667.7	23 00	43 643	8 878
54	8	4	1 675.48	.66	4	100 529.3	24 00	45 430	9 655
89 55	31.028	55	1 706.51	1861.66	55	102 391.0	25 00	47 204	10 463
56	8	6	1 737.54	.66	6	104 252.6	26 00	48 964	11 302
57	8	7	1 768.57	.66	7	106 114.3	27 00	50 708	12 172
58	8	8	1 799.60	.66	8	107 975.9	28 00	52 438	13 072
59	8	9	1 830.62	.66	9	109 837.6	29 00	54 151	14 002
89 60	31.028	60	1 861.65	1861.66	60	111 699.3	30 00	55 848	14 962