

<i>Terrestrial Spheroid</i> MERIDIONAL PARTS <i>Compression</i> $\frac{1}{293.465}$												
M	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	M
0	0-00	59-60	119-21	178-86	238-56	298-34	358-22	418-20	478-31	538-58	599-01	0
1	0-99	60-59	120-20	179-85	239-56	299-34	359-21	419-20	479-31	539-58	600-02	1
2	1-99	61-58	121-20	180-85	240-55	300-34	360-21	420-20	480-32	540-59	601-03	2
3	2-98	62-58	122-19	181-84	241-55	301-33	361-21	421-20	481-32	541-59	602-04	3
4	3-97	63-57	123-18	182-84	242-55	302-33	362-21	422-20	482-32	542-60	603-04	4
5	4-97	64-56	124-18	183-83	243-54	303-33	363-21	423-20	483-33	543-60	604-05	5
6	5-96	65-56	125-17	184-82	244-54	304-32	364-21	424-20	484-33	544-61	605-06	6
7	6-95	66-55	126-17	185-82	245-53	305-32	365-21	425-20	485-33	545-62	606-07	7
8	7-95	67-54	127-16	186-81	246-53	306-32	366-21	426-20	486-34	546-62	607-08	8
9	8-94	68-54	128-15	187-81	247-53	307-32	367-20	427-21	487-34	547-63	608-09	9
10	9-93	69-53	129-15	188-80	248-52	308-31	368-20	428-21	488-34	548-64	609-10	10
11	10-92	70-52	130-14	189-80	249-52	309-31	369-20	429-21	489-35	549-64	610-11	11
12	11-92	71-52	131-14	190-79	250-51	310-31	370-20	430-21	490-35	550-65	611-12	12
13	12-91	72-51	132-13	191-79	251-51	311-31	371-20	431-21	491-36	551-65	612-13	13
14	13-90	73-50	133-12	192-78	252-50	312-30	372-20	432-21	492-36	552-66	613-14	14
15	14-90	74-50	134-12	193-78	253-50	313-30	373-20	433-21	493-36	553-67	614-15	15
16	15-89	75-49	135-11	194-77	254-50	314-30	374-20	434-21	494-37	554-67	615-15	16
17	16-88	76-48	136-11	195-77	255-49	315-30	375-20	435-22	495-37	555-68	616-16	17
18	17-88	77-48	137-10	196-76	256-49	316-29	376-20	436-22	496-37	556-69	617-17	18
19	18-87	78-47	138-09	197-76	257-48	317-29	377-20	437-22	497-38	557-69	618-18	19
20	19-86	79-46	139-09	198-75	258-48	318-29	378-20	438-22	498-38	558-70	619-19	20
21	20-86	80-46	140-08	199-75	259-48	319-29	379-20	439-22	499-39	559-71	620-20	21
22	21-85	81-45	141-08	200-74	260-47	320-28	380-19	440-22	500-39	560-71	621-21	22
23	22-84	82-44	142-07	201-74	261-47	321-28	381-19	441-23	501-39	561-72	622-22	23
24	23-84	83-44	143-06	202-73	262-46	322-28	382-19	442-23	502-40	562-73	623-23	24
25	24-83	84-43	144-06	203-73	263-46	323-28	383-19	443-23	503-40	563-73	624-24	25
26	25-82	85-42	145-05	204-72	264-46	324-27	384-19	444-23	504-41	564-74	625-25	26
27	26-82	86-42	146-05	205-72	265-45	325-27	385-19	445-23	505-41	565-75	626-26	27
28	27-81	87-41	147-04	206-71	266-45	326-27	386-19	446-23	506-41	566-75	627-27	28
29	28-80	88-40	148-03	207-71	267-45	327-27	387-19	447-24	507-42	567-76	628-28	29
30	29-80	89-40	149-03	208-70	268-44	328-27	388-19	448-24	508-42	568-77	629-29	30
31	30-79	90-39	150-02	209-70	269-44	329-26	389-19	449-24	509-43	569-78	630-30	31
32	31-78	91-39	151-02	210-69	270-43	330-26	390-19	450-24	510-43	570-78	631-31	32
33	32-78	92-38	152-01	211-69	271-43	331-26	391-19	451-24	511-44	571-79	632-33	33
34	33-77	93-37	153-00	212-68	272-43	332-26	392-19	452-25	512-44	572-80	633-34	34
35	34-76	94-37	154-00	213-68	273-42	333-26	393-19	453-25	513-45	573-81	634-35	35
36	35-76	95-36	154-99	214-67	274-42	334-25	394-19	454-25	514-45	574-81	635-36	36
37	36-75	96-35	155-99	215-67	275-42	335-25	395-19	455-25	515-45	575-82	636-37	37
38	37-74	97-35	156-98	216-66	276-41	336-25	396-19	456-25	516-46	576-83	637-38	38
39	38-74	98-34	157-97	217-66	277-41	337-25	397-19	457-25	517-46	577-84	638-39	39
40	39-73	99-33	158-97	218-65	278-41	338-25	398-19	458-26	518-47	578-84	639-40	40
41	40-72	100-33	159-96	219-65	279-40	339-24	399-19	459-26	519-47	579-85	640-41	41
42	41-72	101-32	160-96	220-64	280-40	340-24	400-19	460-26	520-48	580-86	641-42	42
43	42-71	102-31	161-95	221-64	281-40	341-24	401-19	461-26	521-48	581-87	642-43	43
44	43-70	103-31	162-95	222-64	282-39	342-24	402-19	462-27	522-49	582-87	643-44	44
45	44-70	104-30	163-94	223-63	283-39	343-24	403-19	463-27	523-49	583-88	644-46	45
46	45-69	105-30	164-94	224-63	284-39	344-23	404-19	464-27	524-50	584-89	645-47	46
47	46-68	106-29	165-93	225-62	285-38	345-23	405-19	465-27	525-50	585-90	646-48	47
48	47-68	107-28	166-92	226-62	286-38	346-23	406-19	466-28	526-51	586-91	647-49	48
49	48-67	108-28	167-92	227-61	287-38	347-23	407-19	467-28	527-51	587-91	648-50	49
50	49-66	109-27	168-91	228-61	288-37	348-23	408-19	468-28	528-52	588-92	649-51	50
51	50-66	110-26	169-91	229-60	289-37	349-23	409-19	469-29	529-52	589-93	650-52	51
52	51-65	111-26	170-90	230-60	290-37	350-23	410-19	470-29	530-53	590-94	651-53	52
53	52-64	112-25	171-90	231-59	291-36	351-22	411-19	471-29	531-54	591-95	652-55	53
54	53-64	113-24	172-89	232-59	292-36	352-22	412-19	472-29	532-54	592-96	653-56	54
55	54-63	114-24	173-88	233-59	293-36	353-22	413-19	473-30	533-55	593-96	654-57	55
56	55-62	115-23	174-88	234-58	294-35	354-22	414-19	474-30	534-55	594-97	655-58	56
57	56-62	116-23	175-87	235-58	295-35	355-22	415-20	475-30	535-56	595-98	656-59	57
58	57-61	117-22	176-87	236-57	296-35	356-22	416-20	476-30	536-56	596-99	657-60	58
59	58-60	118-21	177-86	237-57	297-35	357-22	417-20	477-31	537-57	598-00	658-62	59
60	59-60	119-21	178-86	238-56	298-34	358-22	418-20	478-31	538-58	599-01	659-63	60
M	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	M

<i>Terrestrial Spheroid</i> MERIDIONAL PARTS <i>Compression $\frac{1}{293.465}$</i>											
M	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	M
0	659.63	720.46	781.52	842.83	904.41	966.28	1028.46	1090.99	1153.87	1217.14	0
1	660.64	721.47	782.54	843.85	905.43	967.31	1029.50	1092.03	1154.92	1218.19	1
2	661.65	722.49	783.56	844.88	906.46	968.35	1030.54	1093.08	1155.97	1219.25	2
3	662.67	723.51	784.58	845.90	907.49	969.38	1031.58	1094.12	1157.02	1220.31	3
4	663.68	724.52	785.60	846.92	908.52	970.41	1032.62	1095.17	1158.08	1221.37	4
5	664.69	725.54	786.62	847.95	909.55	971.45	1033.66	1096.21	1159.13	1222.43	5
6	665.70	726.55	787.64	848.97	910.58	972.48	1034.70	1097.26	1160.18	1223.49	6
7	666.72	727.57	788.66	850.00	911.61	973.52	1035.74	1098.30	1161.23	1224.54	7
8	667.73	728.59	789.68	851.02	912.64	974.55	1036.78	1099.35	1162.28	1225.60	8
9	668.74	729.60	790.70	852.05	913.67	975.59	1037.82	1100.40	1163.34	1226.66	9
10	669.75	730.62	791.72	853.07	914.70	976.62	1038.86	1101.44	1164.39	1227.72	10
11	670.77	731.64	792.74	854.10	915.73	977.66	1039.90	1102.49	1165.44	1228.78	11
12	671.78	732.65	793.76	855.12	916.76	978.69	1040.94	1103.53	1166.49	1229.84	12
13	672.79	733.67	794.78	856.14	917.79	979.72	1041.98	1104.58	1167.55	1230.90	13
14	673.80	734.69	795.80	857.17	918.82	980.76	1043.02	1105.63	1168.60	1231.96	14
15	674.82	735.70	796.82	858.19	919.85	981.79	1044.06	1106.67	1169.65	1233.02	15
16	675.83	736.72	797.84	859.22	920.88	982.83	1045.10	1107.72	1170.70	1234.08	16
17	676.84	737.74	798.86	860.25	921.91	983.86	1046.14	1108.77	1171.76	1235.14	17
18	677.86	738.75	799.88	861.27	922.94	984.90	1047.18	1109.81	1172.81	1236.20	18
19	678.87	739.77	800.90	862.30	923.97	985.93	1048.23	1110.86	1173.86	1237.26	19
20	679.88	740.79	801.93	863.32	925.00	986.97	1049.27	1111.91	1174.92	1238.32	20
21	680.90	741.80	802.95	864.35	926.03	988.01	1050.31	1112.95	1175.97	1239.38	21
22	681.91	742.82	803.97	865.37	927.06	989.04	1051.35	1114.00	1177.02	1240.44	22
23	682.92	743.84	804.99	866.40	928.09	990.08	1052.39	1115.05	1178.08	1241.50	23
24	683.94	744.85	806.01	867.42	929.12	991.11	1053.43	1116.10	1179.13	1242.56	24
25	684.95	745.87	807.03	868.45	930.15	992.15	1054.47	1117.14	1180.18	1243.62	25
26	685.96	746.89	808.05	869.48	931.18	993.19	1055.51	1118.19	1181.24	1244.68	26
27	686.98	747.91	809.07	870.50	932.21	994.22	1056.56	1119.24	1182.29	1245.74	27
28	687.99	748.92	810.10	871.53	933.24	995.26	1057.60	1120.29	1183.35	1246.80	28
29	689.00	749.94	811.12	872.55	934.27	996.29	1058.64	1121.33	1184.40	1247.86	29
30	690.02	750.96	812.14	873.58	935.30	997.33	1059.68	1122.38	1185.45	1248.92	30
31	691.03	751.98	813.16	874.61	936.33	998.37	1060.72	1123.43	1186.51	1249.98	31
32	692.04	752.99	814.18	875.63	937.37	999.40	1061.77	1124.48	1187.56	1251.04	32
33	693.06	754.01	815.21	876.66	938.40	1000.44	1062.81	1125.53	1188.62	1252.11	33
34	694.07	755.03	816.23	877.69	939.43	1001.48	1063.85	1126.58	1189.67	1253.17	34
35	695.09	756.05	817.25	878.71	940.46	1002.51	1064.89	1127.62	1190.73	1254.23	35
36	696.10	757.07	818.27	879.74	941.49	1003.55	1065.94	1128.67	1191.78	1255.29	36
37	697.12	758.08	819.29	880.77	942.52	1004.59	1066.98	1129.72	1192.84	1256.35	37
38	698.13	759.10	820.32	881.79	943.56	1005.62	1068.02	1130.77	1193.89	1257.41	38
39	699.14	760.12	821.34	882.82	944.59	1006.66	1069.06	1131.82	1194.95	1258.48	39
40	700.16	761.14	822.36	883.85	945.62	1007.70	1070.11	1132.87	1196.00	1259.54	40
41	701.17	762.16	823.38	884.88	946.65	1008.74	1071.15	1133.92	1197.05	1260.60	41
42	702.19	763.18	824.41	885.90	947.68	1009.77	1072.19	1134.97	1198.12	1261.66	42
43	703.20	764.19	825.43	886.93	948.72	1010.81	1073.24	1136.02	1199.17	1262.73	43
44	704.22	765.21	826.45	887.96	949.75	1011.85	1074.28	1137.07	1200.23	1263.79	44
45	705.23	766.23	827.47	888.99	950.78	1012.89	1075.32	1138.11	1201.28	1264.85	45
46	706.25	767.25	828.50	890.01	951.81	1013.92	1076.37	1139.16	1202.34	1265.92	46
47	707.26	768.27	829.52	891.04	952.85	1014.96	1077.41	1140.21	1203.40	1266.98	47
48	708.28	769.29	830.54	892.07	953.88	1016.00	1078.46	1141.26	1204.45	1268.04	48
49	709.29	770.31	831.57	893.10	954.91	1017.04	1079.50	1142.31	1205.51	1269.11	49
50	710.31	771.32	832.59	894.12	955.94	1018.08	1080.54	1143.36	1206.57	1270.17	50
51	711.32	772.34	833.61	895.15	956.98	1019.11	1081.59	1144.41	1207.62	1271.23	51
52	712.34	773.36	834.64	896.18	958.01	1020.15	1082.63	1145.46	1208.68	1272.30	52
53	713.35	774.38	835.66	897.21	959.04	1021.19	1083.68	1146.51	1209.74	1273.36	53
54	714.37	775.40	836.68	898.24	960.08	1022.23	1084.72	1147.56	1210.79	1274.43	54
55	715.38	776.42	837.71	899.26	961.11	1023.27	1085.76	1148.62	1211.85	1275.49	55
56	716.40	777.44	838.73	900.29	962.14	1024.31	1086.81	1149.67	1212.91	1276.55	56
57	717.41	778.46	839.76	901.32	963.18	1025.35	1087.85	1150.72	1213.96	1277.62	57
58	718.43	779.48	840.78	902.35	964.21	1026.39	1088.90	1151.77	1215.02	1278.68	58
59	719.44	780.50	841.80	903.38	965.24	1027.42	1089.94	1152.82	1216.08	1279.75	59
60	720.46	781.52	842.83	904.41	966.28	1028.46	1090.99	1153.87	1217.14	1280.81	60
M	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	M

Terrestrial Spheroid		MERIDIONAL PARTS								Compression $\frac{1}{293.465}$	
M	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	M
0	1280.81	1344.92	1409.49	1474.54	1540.11	1606.21	1672.89	1740.18	1808.09	1876.67	0
1	1281.88	1345.99	1410.57	1475.63	1541.20	1607.32	1674.01	1741.30	1809.23	1877.82	1
2	1282.94	1347.07	1411.65	1476.72	1542.30	1608.43	1675.13	1742.43	1810.37	1878.97	2
3	1284.01	1348.14	1412.73	1477.81	1543.40	1609.53	1676.24	1743.56	1811.50	1880.12	3
4	1285.07	1349.21	1413.81	1478.89	1544.50	1610.64	1677.36	1744.68	1812.64	1881.27	4
5	1286.14	1350.28	1414.89	1479.98	1545.59	1611.75	1678.48	1745.81	1813.78	1882.42	5
6	1287.20	1351.36	1415.97	1481.07	1546.69	1612.86	1679.59	1746.94	1814.92	1883.57	6
7	1288.27	1352.43	1417.05	1482.16	1547.79	1613.96	1680.71	1748.07	1816.06	1884.72	7
8	1289.33	1353.50	1418.13	1483.25	1548.89	1615.07	1681.83	1749.19	1817.20	1885.87	8
9	1290.40	1354.58	1419.21	1484.34	1549.99	1616.18	1682.95	1750.32	1818.34	1887.02	9
10	1291.47	1355.65	1420.30	1485.43	1551.09	1617.29	1684.06	1751.45	1819.47	1888.17	10
11	1292.53	1356.72	1421.38	1486.52	1552.18	1618.39	1685.18	1752.58	1820.61	1889.32	11
12	1293.60	1357.80	1422.46	1487.61	1553.28	1619.50	1686.30	1753.71	1821.75	1890.47	12
13	1294.66	1358.87	1423.54	1488.70	1554.38	1620.61	1687.42	1754.84	1822.89	1891.62	13
14	1295.73	1359.94	1424.62	1489.79	1555.48	1621.72	1688.54	1755.96	1824.03	1892.78	14
15	1296.80	1361.02	1425.70	1490.88	1556.58	1622.83	1689.66	1757.09	1825.17	1893.93	15
16	1297.86	1362.09	1426.79	1491.97	1557.68	1623.94	1690.78	1758.22	1826.31	1895.08	16
17	1298.93	1363.17	1427.87	1493.06	1558.78	1625.05	1691.89	1759.35	1827.45	1896.23	17
18	1300.00	1364.24	1428.95	1494.16	1559.88	1626.16	1693.01	1760.48	1828.59	1897.38	18
19	1301.06	1365.32	1430.03	1495.25	1560.98	1627.27	1694.13	1761.61	1829.74	1898.54	19
20	1302.13	1366.39	1431.12	1496.34	1562.08	1628.38	1695.25	1762.74	1830.88	1899.69	20
21	1303.20	1367.47	1432.20	1497.43	1563.18	1629.49	1696.37	1763.87	1832.02	1900.84	21
22	1304.27	1368.54	1433.28	1498.52	1564.28	1630.60	1697.49	1765.00	1833.16	1901.99	22
23	1305.33	1369.62	1434.37	1499.61	1565.38	1631.71	1698.61	1766.13	1834.30	1903.15	23
24	1306.40	1370.69	1435.45	1500.70	1566.48	1632.82	1699.73	1767.26	1835.44	1904.30	24
25	1307.47	1371.77	1436.53	1501.80	1567.58	1633.93	1700.85	1768.39	1836.58	1905.46	25
26	1308.54	1372.84	1437.62	1502.89	1568.68	1635.04	1701.97	1769.53	1837.73	1906.61	26
27	1309.61	1373.92	1438.70	1503.98	1569.79	1636.15	1703.09	1770.66	1838.87	1907.76	27
28	1310.67	1374.99	1439.78	1505.07	1570.89	1637.26	1704.22	1771.79	1840.01	1908.92	28
29	1311.74	1376.07	1440.87	1506.16	1571.99	1638.37	1705.34	1772.92	1841.15	1910.07	29
30	1312.81	1377.14	1441.95	1507.26	1573.09	1639.48	1706.46	1774.05	1842.30	1911.23	30
31	1313.88	1378.22	1443.04	1508.35	1574.19	1640.59	1707.58	1775.18	1843.44	1912.38	31
32	1314.95	1379.30	1444.12	1509.44	1575.29	1641.70	1708.70	1776.32	1844.58	1913.54	32
33	1316.02	1380.37	1445.20	1510.54	1576.40	1642.82	1709.82	1777.45	1845.73	1914.69	33
34	1317.09	1381.45	1446.29	1511.63	1577.50	1643.93	1710.94	1778.58	1846.87	1915.85	34
35	1318.15	1382.53	1447.37	1512.72	1578.60	1645.04	1712.07	1779.71	1848.01	1917.00	35
36	1319.22	1383.60	1448.46	1513.82	1579.70	1646.15	1713.19	1780.85	1849.16	1918.16	36
37	1320.29	1384.68	1449.54	1514.91	1580.81	1647.26	1714.31	1781.98	1850.30	1919.31	37
38	1321.36	1385.76	1450.63	1516.00	1581.91	1648.38	1715.43	1783.11	1851.45	1920.47	38
39	1322.43	1386.84	1451.72	1517.10	1583.01	1649.49	1716.56	1784.25	1852.59	1921.63	39
40	1323.50	1387.91	1452.80	1518.19	1584.12	1650.60	1717.68	1785.38	1853.74	1922.78	40
41	1324.57	1388.99	1453.89	1519.29	1585.22	1651.72	1718.80	1786.51	1854.88	1923.94	41
42	1325.64	1390.07	1454.97	1520.38	1586.32	1652.83	1719.93	1787.65	1856.03	1925.10	42
43	1326.71	1391.15	1456.06	1521.48	1587.43	1653.94	1721.05	1788.78	1857.17	1926.25	43
44	1327.78	1392.22	1457.14	1522.57	1588.53	1655.06	1722.17	1789.92	1858.32	1927.41	44
45	1328.85	1393.30	1458.23	1523.67	1589.63	1656.17	1723.30	1791.05	1859.46	1928.57	45
46	1329.92	1394.38	1459.32	1524.76	1590.74	1657.28	1724.42	1792.19	1860.61	1929.73	46
47	1330.99	1395.46	1460.40	1525.86	1591.84	1658.40	1725.54	1793.32	1861.76	1930.89	47
48	1332.06	1396.54	1461.49	1526.95	1592.95	1659.51	1726.67	1794.46	1862.90	1932.04	48
49	1333.13	1397.61	1462.58	1528.05	1594.05	1660.63	1727.79	1795.59	1864.05	1933.20	49
50	1334.20	1398.69	1463.66	1529.14	1595.16	1661.74	1728.92	1796.73	1865.20	1934.36	50
51	1335.28	1399.77	1464.75	1530.24	1596.26	1662.86	1730.04	1797.86	1866.34	1935.52	51
52	1336.35	1400.85	1465.84	1531.33	1597.37	1663.97	1731.17	1799.00	1867.49	1936.68	52
53	1337.42	1401.93	1466.92	1532.43	1598.47	1665.08	1732.29	1800.13	1868.64	1937.84	53
54	1338.49	1403.01	1468.01	1533.53	1599.58	1666.20	1733.42	1801.27	1869.78	1939.00	54
55	1339.56	1404.09	1469.10	1534.62	1600.68	1667.32	1734.54	1802.41	1870.93	1940.16	55
56	1340.63	1405.17	1470.19	1535.72	1601.79	1668.43	1735.67	1803.54	1872.08	1941.32	56
57	1341.70	1406.25	1471.28	1536.82	1602.90	1669.55	1736.80	1804.68	1873.23	1942.48	57
58	1342.78	1407.33	1472.36	1537.91	1604.00	1670.66	1737.92	1805.82	1874.38	1943.64	58
59	1343.85	1408.41	1473.45	1539.01	1605.11	1671.78	1739.05	1806.95	1875.53	1944.80	59
60	1344.92	1409.49	1474.54	1540.11	1606.21	1672.89	1740.18	1808.09	1876.67	1945.96	60
M	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	M

1											
Terrestrial Spheroid		MERIDIONAL PARTS						Compression 293.465			
M	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°	M
0	1945.96	2015.98	2086.78	2158.39	2230.86	2304.23	2378.54	2453.85	2530.20	2607.64	0
1	1947.12	2017.15	2087.97	2159.59	2232.08	2305.46	2379.79	2455.11	2531.48	2608.94	1
2	1948.28	2018.33	2089.15	2160.79	2233.29	2306.69	2381.04	2456.38	2532.76	2610.24	2
3	1949.44	2019.50	2090.34	2161.99	2234.51	2307.92	2382.28	2457.64	2534.04	2611.54	3
4	1950.60	2020.68	2091.53	2163.20	2235.72	2309.15	2383.53	2458.91	2535.33	2612.84	4
5	1951.77	2021.85	2092.72	2164.40	2236.94	2310.39	2384.78	2460.17	2536.61	2614.15	5
6	1952.93	2023.03	2093.90	2165.60	2238.16	2311.62	2386.03	2461.44	2537.89	2615.45	6
7	1954.09	2024.20	2095.09	2166.80	2239.37	2312.85	2387.28	2462.70	2539.18	2616.75	7
8	1955.25	2025.38	2096.28	2168.00	2240.59	2314.08	2388.53	2463.97	2540.46	2618.05	8
9	1956.41	2026.55	2097.47	2169.21	2241.81	2315.32	2389.77	2465.23	2541.74	2619.36	9
10	1957.58	2027.73	2098.66	2170.41	2243.03	2316.55	2391.02	2466.50	2543.03	2620.66	10
11	1958.74	2028.90	2099.85	2171.61	2244.24	2317.78	2392.27	2467.77	2544.31	2621.96	11
12	1959.90	2030.08	2101.04	2172.82	2245.46	2319.02	2393.52	2469.03	2545.60	2623.27	12
13	1961.07	2031.25	2102.23	2174.02	2246.68	2320.25	2394.77	2470.30	2546.88	2624.57	13
14	1962.23	2032.43	2103.42	2175.22	2247.90	2321.48	2396.02	2471.57	2548.17	2625.88	14
15	1963.39	2033.61	2104.61	2176.43	2249.12	2322.72	2397.27	2472.84	2549.45	2627.18	15
16	1964.56	2034.78	2105.80	2177.63	2250.34	2323.95	2398.53	2474.10	2550.74	2628.49	16
17	1965.72	2035.96	2106.99	2178.84	2251.56	2325.19	2399.78	2475.37	2552.03	2629.79	17
18	1966.89	2037.14	2108.18	2180.04	2252.78	2326.42	2401.03	2476.64	2553.31	2631.10	18
19	1968.05	2038.31	2109.37	2181.25	2254.00	2327.66	2402.28	2477.91	2554.60	2632.40	19
20	1969.22	2039.49	2110.56	2182.45	2255.22	2328.89	2403.53	2479.18	2555.89	2633.71	20
21	1970.38	2040.67	2111.75	2183.66	2256.44	2330.13	2404.78	2480.45	2557.18	2635.02	21
22	1971.55	2041.85	2112.94	2184.86	2257.66	2331.37	2406.04	2481.72	2558.46	2636.32	22
23	1972.71	2043.03	2114.13	2186.07	2258.88	2332.60	2407.29	2482.99	2559.75	2637.63	23
24	1973.88	2044.20	2115.32	2187.27	2260.10	2333.84	2408.54	2484.26	2561.04	2638.94	24
25	1975.04	2045.38	2116.52	2188.48	2261.32	2335.08	2409.80	2485.53	2562.33	2640.25	25
26	1976.21	2046.56	2117.71	2189.69	2262.54	2336.31	2411.05	2486.80	2563.62	2641.56	26
27	1977.38	2047.74	2118.90	2190.89	2263.76	2337.55	2412.30	2488.07	2564.91	2642.86	27
28	1978.54	2048.92	2120.10	2192.10	2264.98	2338.79	2413.56	2489.35	2566.20	2644.17	28
29	1979.71	2050.10	2121.29	2193.31	2266.21	2340.03	2414.81	2490.62	2567.49	2645.48	29
30	1980.88	2051.28	2122.48	2194.52	2267.43	2341.27	2416.07	2491.89	2568.78	2646.79	30
31	1982.04	2052.46	2123.68	2195.73	2268.65	2342.50	2417.32	2493.16	2570.07	2648.10	31
32	1983.21	2053.64	2124.87	2196.93	2269.88	2343.74	2418.58	2494.44	2571.36	2649.41	32
33	1984.38	2054.82	2126.06	2198.14	2271.10	2344.98	2419.83	2495.71	2572.65	2650.72	33
34	1985.55	2056.00	2127.26	2199.35	2272.32	2346.22	2421.09	2496.98	2573.94	2652.03	34
35	1986.71	2057.18	2128.45	2200.56	2273.55	2347.46	2422.35	2498.26	2575.24	2653.35	35
36	1987.88	2058.36	2129.65	2201.77	2274.77	2348.70	2423.60	2499.53	2576.53	2654.66	36
37	1989.05	2059.55	2130.84	2202.98	2276.00	2349.94	2424.86	2500.80	2577.82	2655.97	37
38	1990.22	2060.73	2132.04	2204.19	2277.22	2351.18	2426.12	2502.08	2579.12	2657.28	38
39	1991.39	2061.91	2133.23	2205.40	2278.45	2352.42	2427.38	2503.35	2580.41	2658.60	39
40	1992.56	2063.09	2134.43	2206.61	2279.67	2353.66	2428.63	2504.63	2581.70	2659.91	40
41	1993.73	2064.27	2135.62	2207.82	2280.90	2354.91	2429.89	2505.90	2583.00	2661.22	41
42	1994.90	2065.46	2136.82	2209.03	2282.12	2356.15	2431.15	2507.18	2584.29	2662.54	42
43	1996.06	2066.64	2138.02	2210.24	2283.35	2357.39	2432.41	2508.46	2585.58	2663.85	43
44	1997.23	2067.82	2139.21	2211.45	2284.57	2358.63	2433.67	2509.73	2586.88	2665.16	44
45	1998.40	2069.01	2140.41	2212.66	2285.80	2359.87	2434.93	2511.01	2588.17	2666.48	45
46	1999.57	2070.19	2141.61	2213.87	2287.03	2361.12	2436.19	2512.29	2589.47	2667.79	46
47	2000.74	2071.37	2142.81	2215.09	2288.25	2362.36	2437.45	2513.56	2590.77	2669.11	47
48	2001.92	2072.56	2144.00	2216.30	2289.48	2363.60	2438.71	2514.84	2592.06	2670.42	48
49	2003.09	2073.74	2145.20	2217.51	2290.71	2364.85	2439.97	2516.12	2593.36	2671.74	49
50	2004.26	2074.92	2146.40	2218.72	2291.94	2366.09	2441.23	2517.40	2594.66	2673.06	50
51	2005.43	2076.11	2147.60	2219.94	2293.17	2367.33	2442.49	2518.68	2595.95	2674.37	51
52	2006.60	2077.29	2148.80	2221.15	2294.39	2368.58	2443.75	2519.96	2597.25	2675.69	52
53	2007.77	2078.48	2149.99	2222.36	2295.62	2369.82	2445.01	2521.23	2598.55	2677.01	53
54	2008.94	2079.66	2151.19	2223.57	2296.85	2371.07	2446.27	2522.51	2599.85	2678.33	54
55	2010.12	2080.85	2152.39	2224.79	2298.08	2372.31	2447.53	2523.79	2601.14	2679.64	55
56	2011.29	2082.03	2153.59	2226.00	2299.31	2373.56	2448.80	2525.07	2602.44	2680.96	56
57	2012.46	2083.22	2154.79	2227.22	2300.54	2374.80	2450.06	2526.35	2603.74	2682.28	57
58	2013.63	2084.41	2155.99	2228.43	2301.77	2376.05	2451.32	2527.63	2605.04	2683.60	58
59	2014.81	2085.59	2157.19	2229.65	2303.00	2377.30	2452.58	2528.92	2606.34	2684.92	59
60	2015.98	2086.78	2158.39	2230.86	2304.23	2378.54	2453.85	2530.20	2607.64	2686.24	60
M	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°	M

Terrestrial Spheroid											MERIDIONAL PARTS		Compression		1 293.465	
M	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°	M					
0	2686.24	2766.05	2847.13	2929.55	3013.38	3098.70	3185.59	3274.13	3364.41	3456.53	0					
1	2687.56	2767.39	2848.49	2930.93	3014.79	3100.14	3187.05	3275.62	3365.93	3458.08	1					
2	2688.88	2768.73	2849.85	2932.32	3016.20	3101.57	3188.51	3277.11	3367.45	3459.64	2					
3	2690.20	2770.07	2851.22	2933.71	3017.61	3103.01	3189.97	3278.60	3368.97	3461.19	3					
4	2691.52	2771.41	2852.58	2935.09	3019.02	3104.44	3191.44	3280.09	3370.49	3462.74	4					
5	2692.84	2772.75	2853.94	2936.48	3020.43	3105.88	3192.90	3281.58	3372.01	3464.29	5					
6	2694.16	2774.10	2855.31	2937.87	3021.85	3107.32	3194.36	3283.07	3373.54	3465.85	6					
7	2695.49	2775.44	2856.67	2939.26	3023.26	3108.76	3195.83	3284.57	3375.06	3467.40	7					
8	2696.81	2776.78	2858.04	2940.64	3024.67	3110.19	3197.29	3286.06	3376.58	3468.96	8					
9	2698.13	2778.13	2859.40	2942.03	3026.08	3111.63	3198.76	3287.55	3378.11	3470.52	9					
10	2699.45	2779.47	2860.77	2943.42	3027.50	3113.07	3200.23	3289.05	3379.63	3472.07	10					
11	2700.78	2780.81	2862.14	2944.81	3028.91	3114.51	3201.69	3290.54	3381.16	3473.63	11					
12	2702.10	2782.16	2863.50	2946.20	3030.32	3115.95	3203.16	3292.04	3382.68	3475.19	12					
13	2703.42	2783.50	2864.87	2947.59	3031.74	3117.39	3204.63	3293.54	3384.21	3476.75	13					
14	2704.75	2784.85	2866.24	2948.98	3033.15	3118.83	3206.10	3295.03	3385.73	3478.30	14					
15	2706.07	2786.19	2867.60	2950.37	3034.57	3120.27	3207.56	3296.53	3387.26	3479.86	15					
16	2707.40	2787.54	2868.97	2951.76	3035.99	3121.71	3209.03	3298.03	3388.79	3481.42	16					
17	2708.72	2788.89	2870.34	2953.15	3037.40	3123.16	3210.50	3299.52	3390.32	3482.98	17					
18	2710.05	2790.23	2871.71	2954.55	3038.82	3124.60	3211.97	3301.02	3391.85	3484.54	18					
19	2711.38	2791.58	2873.08	2955.94	3040.23	3126.04	3213.44	3302.52	3393.38	3486.11	19					
20	2712.70	2792.93	2874.45	2957.33	3041.65	3127.49	3214.91	3304.02	3394.91	3487.67	20					
21	2714.03	2794.28	2875.82	2958.73	3043.07	3128.93	3216.38	3305.52	3396.44	3489.23	21					
22	2715.36	2795.62	2877.19	2960.12	3044.49	3130.37	3217.86	3307.02	3397.97	3490.79	22					
23	2716.68	2796.97	2878.56	2961.51	3045.91	3131.82	3219.33	3308.52	3399.50	3492.36	23					
24	2718.01	2798.32	2879.93	2962.91	3047.33	3133.26	3220.80	3310.02	3401.03	3493.92	24					
25	2719.34	2799.67	2881.30	2964.30	3048.75	3134.71	3222.27	3311.53	3402.56	3495.49	25					
26	2720.67	2801.02	2882.67	2965.70	3050.17	3136.15	3223.75	3313.03	3404.10	3497.05	26					
27	2722.00	2802.37	2884.05	2967.09	3051.59	3137.60	3225.22	3314.53	3405.63	3498.62	27					
28	2723.33	2803.72	2885.42	2968.49	3053.01	3139.05	3226.69	3316.03	3407.16	3500.18	28					
29	2724.66	2805.07	2886.79	2969.89	3054.43	3140.49	3228.17	3317.54	3408.70	3501.75	29					
30	2725.99	2806.42	2888.17	2971.28	3055.85	3141.94	3229.64	3319.04	3410.23	3503.32	30					
31	2727.32	2807.77	2889.54	2972.68	3057.27	3143.39	3231.12	3320.55	3411.77	3504.89	31					
32	2728.65	2809.13	2890.91	2974.08	3058.70	3144.84	3232.60	3322.05	3413.30	3506.45	32					
33	2729.98	2810.48	2892.29	2975.48	3060.12	3146.29	3234.07	3323.56	3414.84	3508.02	33					
34	2731.31	2811.83	2893.66	2976.88	3061.54	3147.74	3235.55	3325.07	3416.38	3509.59	34					
35	2732.64	2813.18	2895.04	2978.28	3062.97	3149.19	3237.03	3326.57	3417.92	3511.16	35					
36	2733.97	2814.54	2896.42	2979.68	3064.39	3150.64	3238.51	3328.08	3419.45	3512.73	36					
37	2735.31	2815.89	2897.79	2981.08	3065.81	3152.09	3239.98	3329.59	3420.99	3514.31	37					
38	2736.64	2817.25	2899.17	2982.48	3067.24	3153.54	3241.46	3331.10	3422.53	3515.88	38					
39	2737.97	2818.60	2900.54	2983.88	3068.66	3154.99	3242.94	3332.60	3424.07	3517.45	39					
40	2739.30	2819.95	2901.92	2985.28	3070.09	3156.45	3244.42	3334.11	3425.61	3519.02	40					
41	2740.64	2821.31	2903.30	2986.68	3071.52	3157.90	3245.90	3335.62	3427.15	3520.60	41					
42	2741.97	2822.67	2904.68	2988.08	3072.94	3159.35	3247.38	3337.13	3428.70	3522.17	42					
43	2743.31	2824.02	2906.06	2989.48	3074.37	3160.81	3248.87	3338.65	3430.24	3523.75	43					
44	2744.64	2825.38	2907.43	2990.88	3075.80	3162.26	3250.35	3340.16	3431.78	3525.32	44					
45	2745.98	2826.73	2908.81	2992.29	3077.23	3163.71	3251.83	3341.67	3433.32	3526.90	45					
46	2747.31	2828.09	2910.19	2993.69	3078.66	3165.17	3253.31	3343.18	3434.87	3528.47	46					
47	2748.65	2829.45	2911.57	2995.09	3080.09	3166.62	3254.80	3344.69	3436.41	3530.05	47					
48	2749.98	2830.81	2912.95	2996.50	3081.52	3168.08	3256.28	3346.21	3437.95	3531.63	48					
49	2751.32	2832.16	2914.33	2997.90	3082.95	3169.54	3257.77	3347.72	3439.50	3533.21	49					
50	2752.66	2833.52	2915.72	2999.31	3084.38	3170.99	3259.25	3349.24	3441.05	3534.79	50					
51	2754.00	2834.88	2917.10	3000.71	3085.81	3172.45	3260.74	3350.75	3442.59	3536.37	51					
52	2755.33	2836.24	2918.48	3002.12	3087.24	3173.91	3262.22	3352.27	3444.14	3537.95	52					
53	2756.67	2837.60	2919.86	3003.53	3088.67	3175.37	3263.71	3353.78	3445.69	3539.53	53					
54	2758.01	2838.96	2921.24	3004.93	3090.10	3176.83	3265.20	3355.30	3447.23	3541.11	54					
55	2759.35	2840.32	2922.63	3006.34	3091.53	3178.28	3266.68	3356.82	3448.78	3542.69	55					
56	2760.69	2841.68	2924.01	3007.75	3092.97	3179.74	3268.17	3358.33	3450.33	3544.27	56					
57	2762.03	2843.04	2925.39	3009.16	3094.40	3181.20	3269.66	3359.85	3451.88	3545.85	57					
58	2763.37	2844.40	2926.78	3010.56	3095.83	3182.66	3271.15	3361.37	3453.43	3547.44	58					
59	2764.71	2845.77	2928.16	3011.97	3097.27	3184.13	3272.64	3362.89	3454.98	3549.02	59					
60	2766.05	2847.13	2929.55	3013.38	3098.70	3185.59	3274.13	3364.41	3456.53	3550.60	60					
M	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°	M					

<i>Terrestrial Spheroid</i> MERIDIONAL PARTS <i>Compression</i> $\frac{1}{293.465}$											
M	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°	M
0	3550.60	3646.74	3745.05	3845.69	3948.78	4054.48	4162.97	4274.43	4389.06	4507.08	0
1	3552.19	3648.36	3746.71	3847.38	3950.52	4056.27	4164.81	4276.31	4391.00	4509.07	1
2	3553.77	3649.98	3748.37	3849.08	3952.26	4058.05	4166.64	4278.20	4392.94	4511.07	2
3	3555.36	3651.60	3750.03	3850.78	3954.00	4059.84	4168.47	4280.08	4394.88	4513.07	3
4	3556.95	3653.22	3751.69	3852.48	3955.74	4061.63	4170.31	4281.97	4396.82	4515.07	4
5	3558.53	3654.84	3753.35	3854.18	3957.48	4063.41	4172.14	4283.86	4398.76	4517.07	5
6	3560.12	3656.47	3755.01	3855.88	3959.23	4065.20	4173.98	4285.75	4400.70	4519.08	6
7	3561.71	3658.09	3756.67	3857.58	3960.97	4066.99	4175.82	4287.64	4402.65	4521.08	7
8	3563.30	3659.72	3758.33	3859.29	3962.72	4068.78	4177.66	4289.53	4404.59	4523.08	8
9	3564.89	3661.34	3760.00	3860.99	3964.46	4070.57	4179.50	4291.42	4406.54	4525.09	9
10	3566.48	3662.97	3761.66	3862.69	3966.21	4072.37	4181.34	4293.31	4408.49	4527.09	10
11	3568.07	3664.59	3763.33	3864.40	3967.96	4074.16	4183.18	4295.20	4410.43	4529.10	11
12	3569.66	3666.22	3764.99	3866.10	3969.70	4075.95	4185.02	4297.09	4412.38	4531.11	12
13	3571.25	3667.85	3766.66	3867.81	3971.45	4077.75	4186.86	4298.99	4414.33	4533.12	13
14	3572.85	3669.48	3768.32	3869.52	3973.20	4079.54	4188.71	4300.89	4416.28	4535.13	14
15	3574.44	3671.11	3769.99	3871.22	3974.95	4081.34	4190.55	4302.78	4418.24	4537.14	15
16	3576.03	3672.74	3771.66	3872.93	3976.70	4083.13	4192.40	4304.68	4420.19	4539.15	16
17	3577.63	3674.37	3773.33	3874.64	3978.46	4084.93	4194.24	4306.58	4422.14	4541.17	17
18	3579.22	3676.00	3774.99	3876.35	3980.21	4086.73	4196.09	4308.48	4424.10	4543.18	18
19	3580.82	3677.63	3776.66	3878.06	3981.96	4088.53	4197.94	4310.38	4426.05	4545.20	19
20	3582.41	3679.26	3778.33	3879.77	3983.71	4090.33	4199.79	4312.28	4428.01	4547.21	20
21	3584.01	3680.89	3780.00	3881.48	3985.47	4092.13	4201.64	4314.18	4429.97	4549.23	21
22	3585.61	3682.53	3781.68	3883.19	3987.22	4093.93	4203.49	4316.08	4431.93	4551.25	22
23	3587.20	3684.16	3783.35	3884.91	3988.98	4095.73	4205.34	4317.98	4433.89	4553.27	23
24	3588.80	3685.79	3785.02	3886.62	3990.74	4097.54	4207.19	4319.89	4435.85	4555.29	24
25	3590.40	3687.43	3786.69	3888.33	3992.49	4099.34	4209.04	4321.79	4437.81	4557.31	25
26	3592.00	3689.07	3788.37	3890.05	3994.25	4101.14	4210.90	4323.70	4439.77	4559.33	26
27	3593.60	3690.70	3790.04	3891.76	3996.01	4102.95	4212.75	4325.61	4441.73	4561.36	27
28	3595.20	3692.34	3791.72	3893.48	3997.77	4104.75	4214.61	4327.52	4443.70	4563.38	28
29	3596.80	3693.98	3793.40	3895.20	3999.53	4106.56	4216.46	4329.42	4445.66	4565.41	29
30	3598.40	3695.61	3795.07	3896.91	4001.29	4108.37	4218.32	4331.33	4447.63	4567.44	30
31	3600.01	3697.25	3796.75	3898.63	4003.06	4110.18	4220.18	4333.24	4449.60	4569.46	31
32	3601.61	3698.89	3798.43	3900.35	4004.82	4111.99	4222.04	4335.16	4451.56	4571.49	32
33	3603.21	3700.53	3800.11	3902.07	4006.58	4113.80	4223.90	4337.07	4453.53	4573.52	33
34	3604.82	3702.17	3801.79	3903.79	4008.35	4115.61	4225.76	4338.98	4455.50	4575.55	34
35	3606.42	3703.82	3803.47	3905.51	4010.11	4117.42	4227.62	4340.90	4457.48	4577.59	35
36	3608.03	3705.46	3805.15	3907.24	4011.88	4119.23	4229.48	4342.81	4459.45	4579.62	36
37	3609.63	3707.10	3806.83	3908.96	4013.64	4121.05	4231.34	4344.73	4461.42	4581.65	37
38	3611.24	3708.74	3808.51	3910.68	4015.41	4122.86	4233.21	4346.65	4463.40	4583.69	38
39	3612.85	3710.39	3810.19	3912.41	4017.18	4124.67	4235.07	4348.56	4465.37	4585.72	39
40	3614.46	3712.03	3811.88	3914.13	4018.95	4126.49	4236.94	4350.48	4467.35	4587.76	40
41	3616.06	3713.68	3813.56	3915.86	4020.72	4128.31	4238.80	4352.40	4469.32	4589.80	41
42	3617.67	3715.32	3815.25	3917.58	4022.49	4130.12	4240.67	4354.32	4471.30	4591.84	42
43	3619.28	3716.97	3816.93	3919.31	4024.26	4131.94	4242.54	4356.25	4473.28	4593.88	43
44	3620.89	3718.62	3818.62	3921.04	4026.03	4133.76	4244.41	4358.17	4475.26	4595.92	44
45	3622.50	3720.26	3820.30	3922.77	4027.80	4135.58	4246.28	4360.09	4477.24	4597.96	45
46	3624.12	3721.91	3821.99	3924.50	4029.58	4137.40	4248.15	4362.02	4479.22	4600.01	46
47	3625.73	3723.56	3823.68	3926.23	4031.35	4139.22	4250.02	4363.94	4481.21	4602.05	47
48	3627.34	3725.21	3825.37	3927.96	4033.13	4141.04	4251.89	4365.87	4483.19	4604.10	48
49	3628.95	3726.86	3827.06	3929.69	4034.90	4142.87	4253.77	4367.80	4485.18	4606.15	49
50	3630.57	3728.51	3828.75	3931.42	4036.68	4144.69	4255.64	4369.72	4487.16	4608.19	50
51	3632.18	3730.16	3830.44	3933.15	4038.45	4146.52	4257.52	4371.65	4489.15	4610.24	51
52	3633.80	3731.81	3832.13	3934.88	4040.23	4148.34	4259.39	4373.58	4491.14	4612.29	52
53	3635.41	3733.47	3833.82	3936.62	4042.01	4150.17	4261.27	4375.51	4493.13	4614.34	53
54	3637.03	3735.12	3835.52	3938.35	4043.79	4151.99	4263.15	4377.45	4495.12	4616.40	54
55	3638.64	3736.77	3837.21	3940.09	4045.57	4153.82	4265.02	4379.38	4497.11	4618.45	55
56	3640.26	3738.43	3838.90	3941.83	4047.35	4155.65	4266.90	4381.31	4499.10	4620.50	56
57	3641.88	3740.08	3840.60	3943.56	4049.13	4157.48	4268.78	4383.25	4501.09	4622.56	57
58	3643.50	3741.74	3842.29	3945.30	4050.92	4159.31	4270.67	4385.18	4503.09	4624.62	58
59	3645.12	3743.40	3843.99	3947.04	4052.70	4161.14	4272.55	4387.12	4505.08	4626.67	59
60	3646.74	3745.05	3845.69	3948.78	4054.48	4162.97	4274.43	4389.06	4507.08	4628.73	60
M	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°	M

Terrestrial Spheroid											MERIDIONAL PARTS		Compression $\frac{1}{293.465}$	
M	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°	M			
0	4628.73	4754.29	4884.06	5018.36	5157.57	5302.11	5452.43	5609.09	5772.68	5943.89	0			
1	4630.79	4756.42	4886.26	5020.64	5159.93	5304.56	5454.99	5611.76	5775.47	5946.82	1			
2	4632.85	4758.55	4888.46	5022.92	5162.30	5307.02	5457.55	5614.43	5778.26	5949.74	2			
3	4634.92	4760.68	4890.66	5025.20	5164.67	5309.48	5460.11	5617.10	5781.05	5952.67	3			
4	4636.98	4762.81	4892.87	5027.48	5167.04	5311.94	5462.67	5619.77	5783.85	5955.60	4			
5	4639.04	4764.94	4895.07	5029.77	5169.41	5314.40	5465.24	5622.45	5786.65	5958.53	5			
6	4641.11	4767.08	4897.28	5032.05	5171.78	5316.87	5467.81	5625.13	5789.45	5961.47	6			
7	4643.17	4769.21	4899.49	5034.34	5174.15	5319.34	5470.37	5627.81	5792.25	5964.40	7			
8	4645.24	4771.35	4901.70	5036.63	5176.52	5321.80	5472.94	5630.49	5795.05	5967.34	8			
9	4647.31	4773.48	4903.91	5038.92	5178.90	5324.27	5475.51	5633.17	5797.86	5970.28	9			
10	4649.38	4775.62	4906.12	5041.21	5181.28	5326.74	5478.09	5635.86	5800.66	5973.23	10			
11	4651.45	4777.76	4908.33	5043.50	5183.66	5329.22	5480.66	5638.54	5803.47	5976.17	11			
12	4653.52	4779.90	4910.55	5045.80	5186.04	5331.69	5483.24	5641.23	5806.29	5979.12	12			
13	4655.60	4782.04	4912.76	5048.09	5188.42	5334.17	5485.82	5643.92	5809.10	5982.07	13			
14	4657.67	4784.18	4914.98	5050.39	5190.80	5336.65	5488.40	5646.62	5811.92	5985.03	14			
15	4659.75	4786.33	4917.20	5052.69	5193.19	5339.13	5490.98	5649.31	5814.74	5987.98	15			
16	4661.82	4788.47	4919.42	5054.99	5195.57	5341.61	5493.57	5652.01	5817.56	5990.94	16			
17	4663.90	4790.62	4921.64	5057.29	5197.96	5344.09	5496.15	5654.71	5820.38	5993.90	17			
18	4665.98	4792.77	4923.86	5059.59	5200.35	5346.57	5498.74	5657.41	5823.21	5996.86	18			
19	4668.06	4794.92	4926.08	5061.89	5202.74	5349.06	5501.33	5660.11	5826.04	5999.83	19			
20	4670.14	4797.07	4928.30	5064.20	5205.14	5351.55	5503.92	5662.82	5828.87	6002.80	20			
21	4672.22	4799.22	4930.53	5066.51	5207.53	5354.04	5506.51	5665.52	5831.70	6005.77	21			
22	4674.30	4801.37	4932.76	5068.81	5209.92	5356.53	5509.11	5668.23	5834.53	6008.74	22			
23	4676.39	4803.52	4934.99	5071.12	5212.32	5359.02	5511.71	5670.94	5837.37	6011.72	23			
24	4678.47	4805.68	4937.22	5073.43	5214.72	5361.51	5514.31	5673.66	5840.21	6014.69	24			
25	4680.56	4807.83	4939.45	5075.75	5217.12	5364.01	5516.91	5676.37	5843.05	6017.67	25			
26	4682.65	4809.99	4941.68	5078.06	5219.52	5366.51	5519.51	5679.09	5845.89	6020.66	26			
27	4684.74	4812.15	4943.91	5080.37	5221.93	5369.01	5522.11	5681.81	5848.74	6023.64	27			
28	4686.83	4814.31	4946.15	5082.69	5224.33	5371.51	5524.72	5684.53	5851.58	6026.63	28			
29	4688.92	4816.47	4948.38	5085.01	5226.74	5374.01	5527.33	5687.25	5854.43	6029.62	29			
30	4691.01	4818.63	4950.62	5087.33	5229.14	5376.51	5529.94	5689.98	5857.29	6032.61	30			
31	4693.10	4820.79	4952.86	5089.65	5231.55	5379.02	5532.55	5692.70	5860.14	6035.60	31			
32	4695.19	4822.96	4955.10	5091.97	5233.96	5381.53	5535.16	5695.43	5863.00	6038.60	32			
33	4697.29	4825.12	4957.34	5094.29	5236.38	5384.04	5537.78	5698.16	5865.86	6041.60	33			
34	4699.39	4827.29	4959.58	5096.62	5238.79	5386.55	5540.39	5700.90	5868.72	6044.60	34			
35	4701.48	4829.46	4961.83	5098.94	5241.21	5389.06	5543.01	5703.63	5871.58	6047.61	35			
36	4703.58	4831.63	4964.07	5101.27	5243.62	5391.57	5545.63	5706.37	5874.44	6050.62	36			
37	4705.68	4833.80	4966.32	5103.60	5246.04	5394.09	5548.25	5709.11	5877.31	6053.63	37			
38	4707.78	4835.97	4968.57	5105.93	5248.46	5396.61	5550.88	5711.85	5880.18	6056.64	38			
39	4709.89	4838.14	4970.82	5108.26	5250.88	5399.13	5553.50	5714.59	5883.05	6059.65	39			
40	4711.99	4840.32	4973.07	5110.60	5253.31	5401.65	5556.13	5717.34	5885.93	6062.67	40			
41	4714.09	4842.49	4975.32	5112.93	5255.73	5404.17	5558.76	5720.09	5888.80	6065.69	41			
42	4716.20	4844.67	4977.57	5115.27	5258.16	5406.70	5561.39	5722.84	5891.68	6068.71	42			
43	4718.30	4846.85	4979.83	5117.61	5260.59	5409.22	5564.03	5725.59	5894.56	6071.73	43			
44	4720.41	4849.03	4982.08	5119.95	5263.02	5411.75	5566.66	5728.34	5897.45	6074.76	44			
45	4722.52	4851.21	4984.34	5122.29	5265.45	5414.28	5569.30	5731.10	5900.33	6077.79	45			
46	4724.63	4853.39	4986.60	5124.63	5267.88	5416.81	5571.94	5733.85	5903.22	6080.82	46			
47	4726.74	4855.57	4988.86	5126.97	5270.31	5419.34	5574.58	5736.61	5906.11	6083.86	47			
48	4728.86	4857.76	4991.12	5129.32	5272.75	5421.88	5577.23	5739.37	5909.00	6086.90	48			
49	4730.97	4859.94	4993.38	5131.66	5275.19	5424.42	5579.87	5742.14	5911.90	6089.94	49			
50	4733.08	4862.13	4995.65	5134.01	5277.63	5426.96	5582.52	5744.90	5914.80	6092.98	50			
51	4735.20	4864.31	4997.91	5136.36	5280.07	5429.50	5585.17	5747.67	5917.70	6096.02	51			
52	4737.32	4866.50	5000.18	5138.71	5282.51	5432.04	5587.82	5750.44	5920.60	6099.07	52			
53	4739.43	4868.69	5002.45	5141.06	5284.95	5434.58	5590.47	5753.21	5923.50	6102.12	53			
54	4741.55	4870.88	5004.72	5143.42	5287.40	5437.13	5593.12	5755.99	5926.41	6105.17	54			
55	4743.67	4873.08	5006.99	5145.77	5289.85	5439.67	5595.78	5758.76	5929.32	6108.23	55			
56	4745.80	4875.27	5009.26	5148.13	5292.30	5442.22	5598.44	5761.54	5932.23	6111.28	56			
57	4747.92	4877.47	5011.53	5150.49	5294.75	5444.77	5601.10	5764.32	5935.14	6114.34	57			
58	4750.04	4879.66	5013.81	5152.85	5297.20	5447.32	5603.76	5767.11	5938.06	6117.41	58			
59	4752.17	4881.86	5016.08	5155.21	5299.65	5449.88	5606.42	5769.89	5940.97	6120.47	59			
60	4754.29	4884.06	5018.36	5157.57	5302.11	5452.43	5609.09	5772.68	5943.89	6123.54	60			
M	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°	M			

Terrestrial Spheroid		MERIDIONAL PARTS								Compression ¹ / _{293.465}	
M	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	M
0	6123.54	6312.55	6512.01	6723.21	6947.70	7187.33	7444.37	7721.64	8022.70	8352.11	0
1	6126.61	6315.78	6515.43	6726.84	6951.56	7191.46	7448.81	7726.45	8027.94	8357.87	1
2	6129.68	6319.02	6518.85	6730.47	6955.43	7195.60	7453.26	7731.27	8033.19	8363.65	2
3	6132.76	6322.26	6522.28	6734.11	6959.30	7199.74	7457.72	7736.09	8038.45	8369.43	3
4	6135.84	6325.51	6525.71	6737.75	6963.18	7203.89	7462.19	7740.92	8043.72	8375.22	4
5	6138.92	6328.75	6529.14	6741.39	6967.06	7208.05	7466.66	7745.76	8048.99	8381.02	5
6	6142.00	6332.00	6532.58	6745.04	6970.95	7212.21	7471.13	7750.61	8054.27	8386.83	6
7	6145.09	6335.26	6536.02	6748.69	6974.84	7216.37	7475.61	7755.46	8059.56	8392.65	7
8	6148.18	6338.51	6539.46	6752.34	6978.73	7220.54	7480.10	7760.32	8064.86	8398.48	8
9	6151.27	6341.77	6542.91	6756.00	6982.63	7224.71	7484.59	7765.18	8070.17	8404.32	9
10	6154.37	6345.03	6546.36	6759.66	6986.53	7228.89	7489.09	7770.05	8075.49	8410.17	10
11	6157.46	6348.30	6549.81	6763.32	6990.44	7233.07	7493.59	7774.93	8080.81	8416.03	11
12	6160.56	6351.57	6553.27	6766.99	6994.35	7237.26	7498.10	7779.82	8086.14	8421.90	12
13	6163.66	6354.84	6556.73	6770.67	6998.26	7241.45	7502.62	7784.71	8091.48	8427.78	13
14	6166.77	6358.11	6560.19	6774.34	7002.18	7245.65	7507.14	7789.61	8096.83	8433.67	14
15	6169.88	6361.39	6563.65	6778.02	7006.11	7249.85	7511.66	7794.51	8102.18	8439.56	15
16	6172.99	6364.67	6567.12	6781.71	7010.03	7254.06	7516.19	7799.43	8107.55	8445.47	16
17	6176.10	6367.95	6570.60	6785.40	7013.97	7258.27	7520.73	7804.35	8112.92	8451.39	17
18	6179.21	6371.23	6574.07	6789.09	7017.90	7262.49	7525.28	7809.27	8118.30	8457.32	18
19	6182.33	6374.52	6577.55	6792.78	7021.84	7266.72	7529.83	7814.21	8123.69	8463.26	19
20	6185.45	6377.81	6581.04	6796.48	7025.79	7270.95	7534.38	7819.15	8129.09	8469.21	20
21	6188.58	6381.11	6584.52	6800.18	7029.74	7275.18	7538.94	7824.09	8134.49	8475.17	21
22	6191.70	6384.41	6588.01	6803.89	7033.69	7279.42	7543.51	7829.05	8139.91	8481.14	22
23	6194.83	6387.71	6591.50	6807.60	7037.65	7283.66	7548.09	7834.01	8145.33	8487.12	23
24	6197.97	6391.01	6595.00	6811.32	7041.62	7287.91	7552.67	7838.98	8150.76	8493.11	24
25	6201.10	6394.32	6598.50	6815.04	7045.58	7292.16	7557.25	7843.95	8156.20	8499.11	25
26	6204.24	6397.63	6602.01	6818.76	7049.56	7296.42	7561.84	7848.93	8161.65	8505.12	26
27	6207.38	6400.94	6605.51	6822.49	7053.53	7300.69	7566.44	7853.92	8167.10	8511.14	27
28	6210.52	6404.26	6609.02	6826.22	7057.51	7304.95	7571.05	7858.92	8172.57	8517.17	28
29	6213.66	6407.58	6612.54	6829.95	7061.50	7309.23	7575.66	7863.93	8178.04	8523.21	29
30	6216.81	6410.90	6616.05	6833.69	7065.49	7313.51	7580.27	7868.94	8183.52	8529.26	30
31	6219.96	6414.22	6619.57	6837.43	7069.48	7317.79	7584.89	7873.95	8189.01	8535.33	31
32	6223.12	6417.55	6623.10	6841.18	7073.48	7322.08	7589.52	7878.98	8194.51	8541.40	32
33	6226.27	6420.88	6626.63	6844.93	7077.49	7326.38	7594.15	7884.01	8200.02	8547.49	33
34	6229.43	6424.22	6630.16	6848.68	7081.49	7330.68	7598.79	7889.05	8205.54	8553.58	34
35	6232.59	6427.55	6633.69	6852.44	7085.51	7334.98	7603.44	7894.10	8211.06	8559.69	35
36	6235.76	6430.89	6637.23	6856.20	7089.52	7339.29	7608.09	7899.15	8216.60	8565.80	36
37	6238.92	6434.24	6640.77	6859.97	7093.54	7343.61	7612.75	7904.21	8222.14	8571.93	37
38	6242.09	6437.58	6644.32	6863.74	7097.57	7347.93	7617.42	7909.28	8227.69	8578.07	38
39	6245.27	6440.93	6647.87	6867.51	7101.60	7352.26	7622.09	7914.36	8233.25	8584.22	39
40	6248.44	6444.29	6651.42	6871.29	7105.64	7356.59	7626.76	7919.44	8238.82	8590.38	40
41	6251.62	6447.64	6654.97	6875.07	7109.68	7360.93	7631.45	7924.53	8244.40	8596.55	41
42	6254.80	6451.00	6658.53	6878.86	7113.72	7365.27	7636.14	7929.63	8249.98	8602.73	42
43	6257.99	6454.36	6662.10	6882.65	7117.77	7369.62	7640.83	7934.74	8255.58	8608.92	43
44	6261.17	6457.73	6665.66	6886.44	7121.83	7373.97	7645.53	7939.85	8261.19	8615.12	44
45	6264.36	6461.10	6669.23	6890.24	7125.88	7378.33	7650.24	7944.97	8266.80	8621.34	45
46	6267.56	6464.47	6672.81	6894.04	7129.95	7382.69	7654.96	7950.10	8272.42	8627.56	46
47	6270.75	6467.84	6676.38	6897.85	7134.02	7387.06	7659.68	7955.24	8278.05	8633.80	47
48	6273.95	6471.22	6679.96	6901.66	7138.09	7391.44	7664.41	7960.38	8283.70	8640.05	48
49	6277.15	6474.60	6683.55	6905.47	7142.17	7395.82	7669.14	7965.53	8289.35	8646.31	49
50	6280.35	6477.99	6687.14	6909.29	7146.25	7400.21	7673.88	7970.69	8295.01	8652.58	50
51	6283.56	6481.38	6690.73	6913.11	7150.33	7404.60	7678.63	7975.85	8300.68	8658.86	51
52	6286.77	6484.77	6694.32	6916.94	7154.42	7408.99	7683.38	7981.03	8306.35	8665.15	52
53	6289.98	6488.16	6697.92	6920.77	7158.52	7413.40	7688.14	7986.21	8312.04	8671.46	53
54	6293.20	6491.56	6701.52	6924.60	7162.62	7417.80	7692.90	7991.40	8317.74	8677.77	54
55	6296.42	6494.96	6705.13	6928.44	7166.73	7422.22	7697.68	7996.59	8323.44	8684.10	55
56	6299.64	6498.36	6708.74	6932.28	7170.84	7426.64	7702.46	8001.80	8329.16	8690.44	56
57	6302.86	6501.77	6712.35	6936.13	7174.95	7431.06	7707.24	8007.01	8334.88	8696.79	57
58	6306.09	6505.18	6715.97	6939.98	7179.07	7435.49	7712.03	8012.23	8340.62	8703.15	58
59	6309.32	6508.59	6719.59	6943.84	7183.20	7439.93	7716.83	8017.46	8346.36	8709.52	59
60	6312.55	6512.01	6723.21	6947.70	7187.33	7444.37	7721.64	8022.70	8352.11	8715.91	60
M	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	M

Terrestrial Spheroid										MERIDIONAL PARTS		Compression $\frac{1}{293.465}$	
M	81°	82°	83°	84°	85°	86°	87°	88°	89°	M			
0	8715.91	9122.25	9582.55	10113.57	10741.27	11509.13	12498.70	13893.00	16276.12	0			
1	8722.31	9129.44	9590.77	10123.15	10752.76	11523.50	12517.86	13921.78	16333.90	1			
2	8728.72	9136.65	9599.00	10132.76	10764.29	11537.92	12537.12	13950.79	16392.67	2			
3	8735.14	9143.87	9607.26	10142.39	10775.86	11552.41	12556.50	13980.06	16452.46	3			
4	8741.57	9151.10	9615.53	10152.05	10787.47	11566.96	12575.99	14009.57	16513.31	4			
5	8748.01	9158.35	9623.82	10161.74	10799.12	11581.56	12595.59	14039.34	16575.25	5			
6	8754.47	9165.62	9632.13	10171.45	10810.80	11596.23	12615.29	14069.37	16638.34	6			
7	8760.94	9172.90	9640.47	10181.19	10822.53	11610.97	12635.11	14099.66	16702.60	7			
8	8767.42	9180.20	9648.82	10190.96	10834.30	11625.77	12655.05	14130.23	16768.08	8			
9	8773.91	9187.51	9657.19	10200.76	10846.10	11640.63	12675.10	14161.06	16834.84	9			
10	8780.42	9194.84	9665.59	10210.58	10857.95	11655.55	12695.27	14192.18	16902.92	10			
11	8786.94	9202.19	9674.00	10220.43	10869.84	11670.54	12715.56	14223.58	16972.37	11			
12	8793.47	9209.55	9682.43	10230.31	10881.77	11685.60	12735.97	14255.27	17043.26	12			
13	8800.01	9216.92	9690.89	10240.22	10893.74	11700.72	12756.50	14287.25	17115.64	13			
14	8806.56	9224.31	9699.37	10250.16	10905.75	11715.91	12777.16	14319.54	17189.57	14			
15	8813.13	9231.72	9707.86	10260.13	10917.81	11731.16	12797.94	14352.13	17265.13	15			
16	8819.71	9239.14	9716.38	10270.12	10929.91	11746.49	12818.85	14385.03	17342.39	16			
17	8826.30	9246.58	9724.92	10280.15	10942.05	11761.88	12839.88	14418.25	17421.42	17			
18	8832.90	9254.04	9733.48	10290.20	10954.23	11777.34	12861.04	14451.79	17502.32	18			
19	8839.52	9261.51	9742.06	10300.28	10966.45	11792.87	12882.34	14485.67	17585.16	19			
20	8846.15	9268.99	9750.66	10310.39	10978.72	11808.47	12903.77	14519.88	17670.05	20			
21	8852.79	9276.50	9759.28	10320.54	10991.03	11824.14	12925.32	14554.44	17757.09	21			
22	8859.44	9284.02	9767.93	10330.71	11003.39	11839.89	12947.02	14589.34	17846.39	22			
23	8866.11	9291.55	9776.60	10340.91	11015.79	11855.70	12968.86	14624.60	17938.07	23			
24	8872.79	9299.10	9785.29	10351.14	11028.24	11871.59	12990.83	14660.23	18032.26	24			
25	8879.48	9306.67	9794.00	10361.40	11040.73	11887.55	13012.94	14696.24	18129.11	25			
26	8886.19	9314.26	9802.73	10371.70	11053.27	11903.59	13035.20	14732.62	18228.76	26			
27	8892.91	9321.86	9811.48	10382.02	11065.85	11919.70	13057.61	14769.39	18331.39	27			
28	8899.64	9329.48	9820.26	10392.37	11078.48	11935.89	13080.15	14806.56	18437.18	28			
29	8906.38	9337.11	9829.06	10402.76	11091.15	11952.15	13102.85	14844.14	18546.32	29			
30	8913.14	9344.76	9837.88	10413.18	11103.87	11968.49	13125.70	14882.13	18659.05	30			
31	8919.91	9352.43	9846.73	10423.63	11116.64	11984.91	13148.70	14920.54	18775.59	31			
32	8926.70	9360.12	9855.59	10434.11	11129.46	12001.41	13171.86	14959.39	18896.23	32			
33	8933.50	9367.82	9864.48	10444.62	11142.32	12017.99	13195.18	14998.68	19021.25	33			
34	8940.31	9375.54	9873.39	10455.16	11155.23	12034.65	13218.65	15038.43	19150.99	34			
35	8947.13	9383.28	9882.33	10465.74	11168.19	12051.38	13242.28	15078.64	19285.83	35			
36	8953.97	9391.03	9891.29	10476.35	11181.20	12068.20	13266.08	15119.33	19426.16	36			
37	8960.82	9398.80	9900.27	10486.99	11194.26	12085.11	13290.04	15160.51	19572.47	37			
38	8967.68	9406.59	9909.28	10497.66	11207.37	12102.09	13314.17	15202.18	19725.29	38			
39	8974.56	9414.40	9918.31	10508.37	11220.53	12119.16	13338.48	15244.36	19885.21	39			
40	8981.45	9422.23	9927.36	10519.11	11233.73	12136.32	13362.95	15287.07	20052.94	40			
41	8988.36	9430.07	9936.44	10529.89	11246.99	12153.56	13387.60	15330.32	20229.28	41			
42	8995.28	9437.93	9945.54	10540.70	11260.30	12170.89	13412.43	15374.12	20415.15	42			
43	9002.21	9445.81	9954.66	10551.54	11273.67	12188.30	13437.44	15418.48	20611.64	43			
44	9009.16	9453.70	9963.81	10562.42	11287.08	12205.81	13462.63	15463.42	20820.06	44			
45	9016.12	9461.62	9972.98	10573.33	11300.55	12223.40	13488.01	15508.96	21041.92	45			
46	9023.09	9469.55	9982.18	10584.27	11314.07	12241.08	13513.57	15555.11	21279.11	46			
47	9030.08	9477.50	9991.40	10595.25	11327.64	12258.86	13539.33	15601.88	21533.87	47			
48	9037.09	9485.47	10000.65	10606.27	11341.27	12276.73	13565.28	15649.31	21809.04	48			
49	9044.11	9493.46	10009.92	10617.32	11354.95	12294.69	13591.43	15697.39	22108.16	49			
50	9051.14	9501.46	10019.21	10628.40	11368.68	12312.74	13617.78	15746.16	22435.81	50			
51	9058.18	9509.48	10028.53	10639.52	11382.47	12330.89	13644.33	15795.63	22798.02	51			
52	9065.24	9517.53	10037.88	10650.68	11396.32	12349.14	13671.09	15845.81	23202.93	52			
53	9072.32	9525.59	10047.25	10661.88	11410.22	12367.48	13698.06	15896.75	23661.97	53			
54	9079.41	9533.67	10056.65	10673.11	11424.18	12385.92	13725.24	15948.45	24191.91	54			
55	9086.51	9541.77	10066.07	10684.37	11438.19	12404.46	13752.64	16000.94	24818.68	55			
56	9093.63	9549.89	10075.52	10695.68	11452.26	12423.10	13780.26	16054.24	25585.79	56			
57	9100.76	9558.03	10084.99	10707.02	11466.39	12441.85	13808.10	16108.38	26574.77	57			
58	9107.91	9566.18	10094.49	10718.40	11480.58	12460.69	13836.17	16163.39	27968.66	58			
59	9115.07	9574.36	10104.02	10729.82	11494.83	12479.64	13864.47	16219.30	30351.52	59			
60	9122.25	9582.55	10113.57	10741.27	11509.13	12498.70	13893.00	16276.12		60			
M	81°	82°	83°	84°	85°	86°	87°	88°	89°	M			