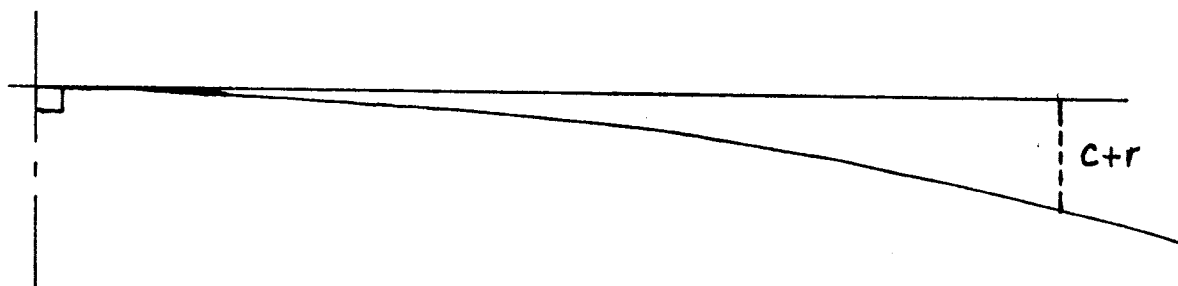


P.O.B.



Curvature & Refraction Correction

(feet) $c+r = 0.574 (\text{Miles})^2 = 0.0206 (\text{Feet}/1000)^2$

(meters) $c+r = 0.0675 (\text{kilometers})^2$

Feet		Meters	
Distance	c+r	Distance	c+r
100'	0.0002'	100 m	0.0007 m
200'	0.0008'	200 m	0.0027 m
300'	0.0019'	300 m	0.0061 m
500'	0.0052'	500 m	0.0169 m
1,000'	0.0206'	1,000 m	0.0675 m
2,000'	0.0824'	2,000 m	0.2700 m
3,000'	0.1854'	3,000 m	0.6075 m
4,000'	0.3296'	4,000 m	1.0800 m
5,280'	0.5743'	5,000 m	1.6875 m

Tangent Plane Projection Distortion

The P.O.B. Datum coordinates are identical to using a tangent plane projection through the standpoint. Distances between the tangent plane and the curved level surface between the same two plumb lines differs by the amount shown below.

English		Metric	
Distance From P.O.B	Distortion, One part in	Distance From P.O.B	Distortion, One part in
1 mi.	47,000,000	1 km	133,000,000
10 mi.	470,000	10 km	1,219,000
20 mi.	118,000	20 km	305,000
50 mi.	18,800	50 km	49,000