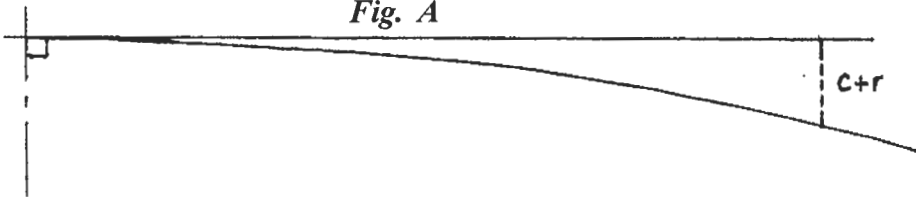


Fig. A



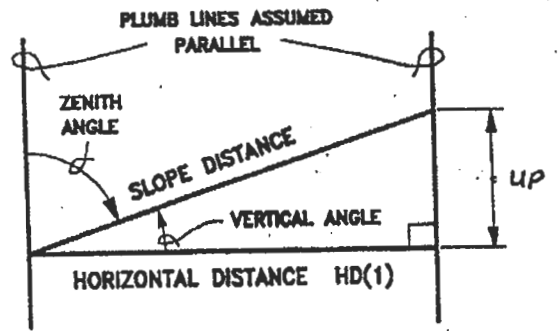
Curvature & Refraction Correction

(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

Fig. B



STANDPOINT FOREPOINT

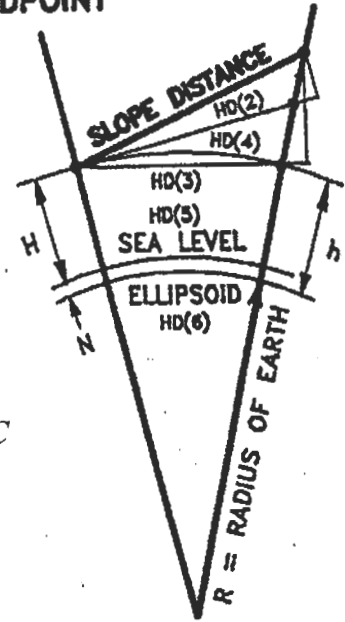


Fig. C

CENTER OF EARTH

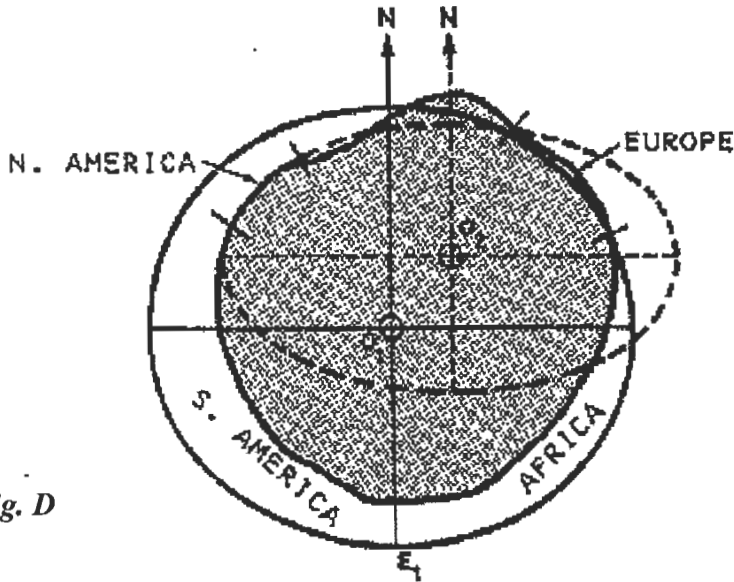
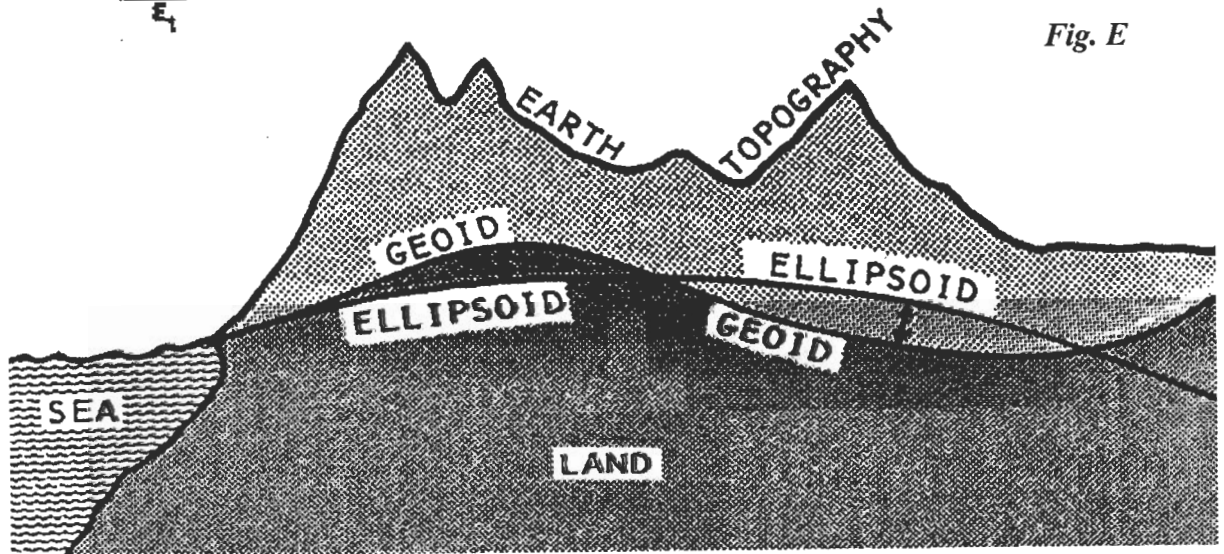


Fig. D

Fig. E



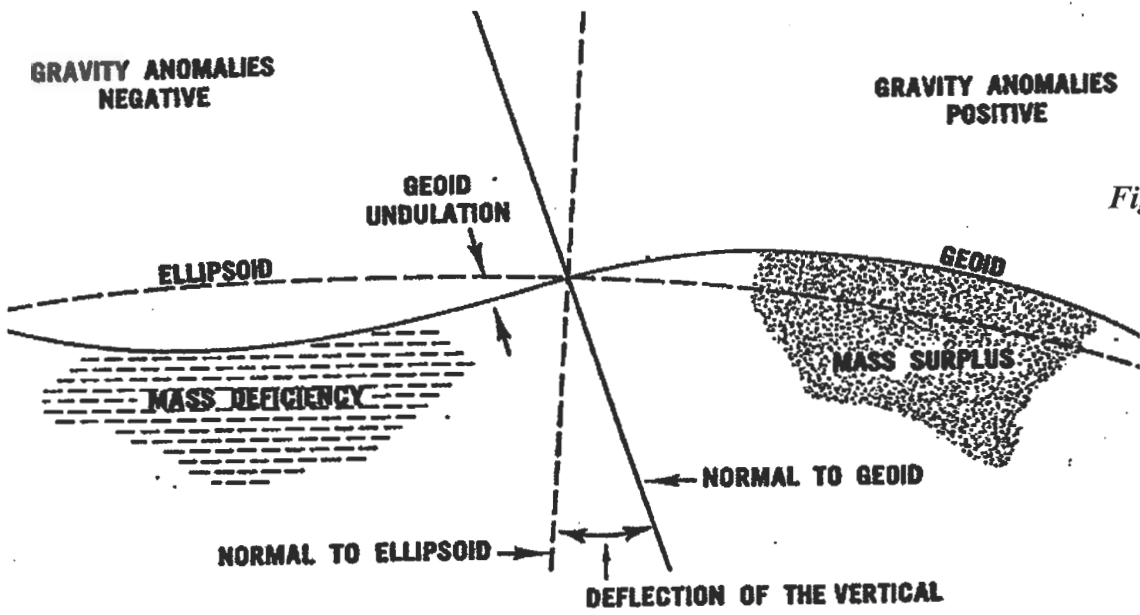


Fig. F

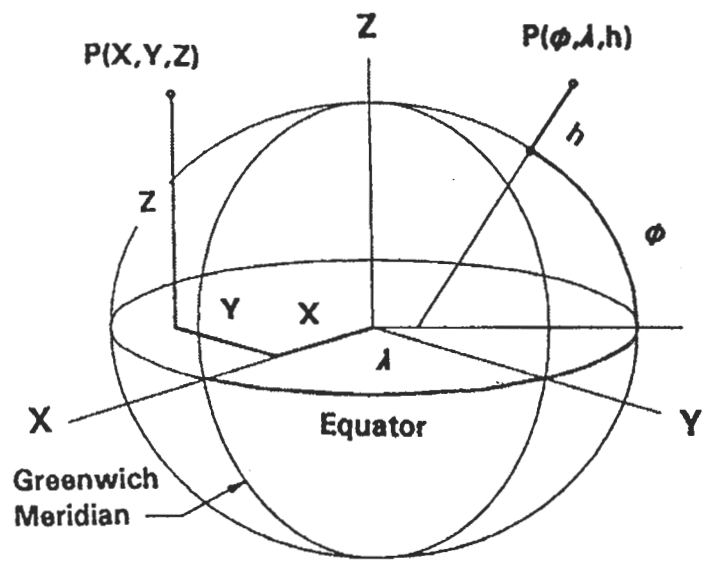
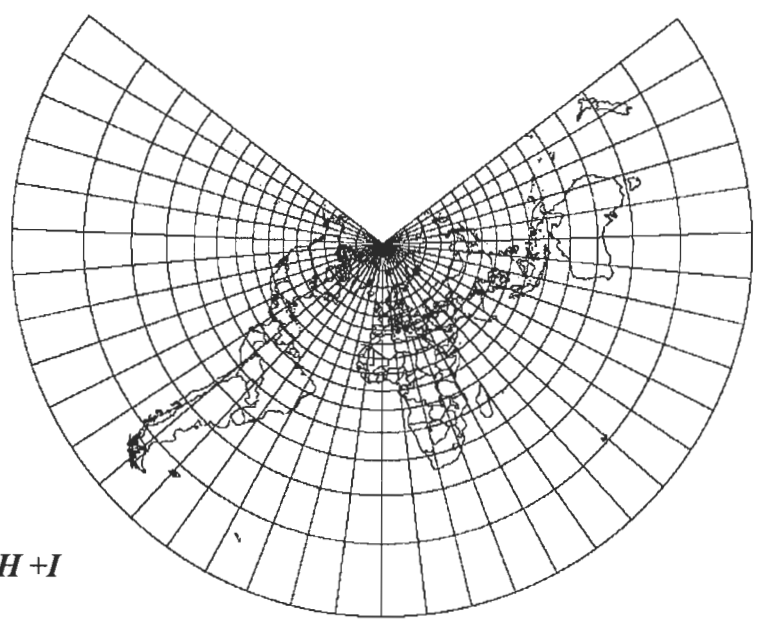
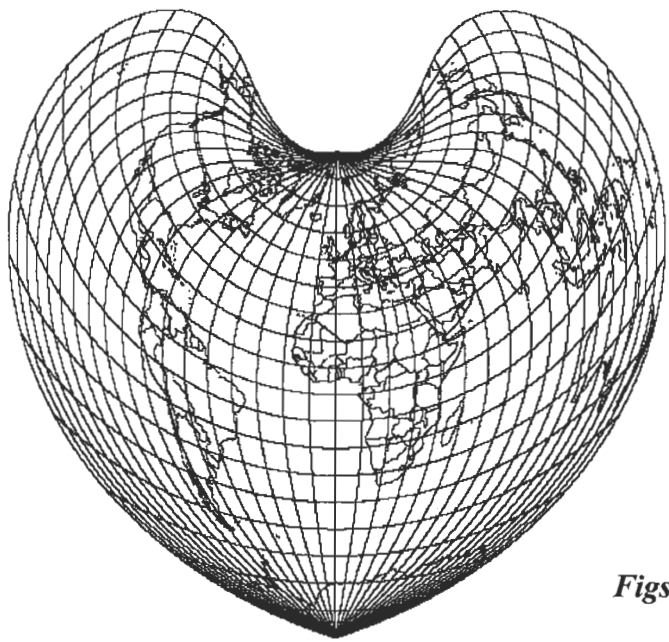


Fig. G

Geocentric X,Y,Z and Geodetic ϕ, λ, h Coordinates



Figs. H+I