

ORBIT

$a = 24\,371\text{ km}$   
 $e = 0.73$   
 $i = 9.65^\circ$   
 $\omega = 180^\circ$   
 $\Omega = -144.6^\circ$   
 $Z_a = 35\,786\text{ km}$   
 $Z_p = 200\text{ km}$

$Z = \text{ALTITUDE}$   
 $X = \text{GROUND RANGE}$   
 $V_R = \text{RELATIVE VELOCITY}$   
 $\Gamma = \text{LONGITUDINAL ACCELERATION}$   
 $\theta_L = \text{LOCAL PITCH ANGLE}$

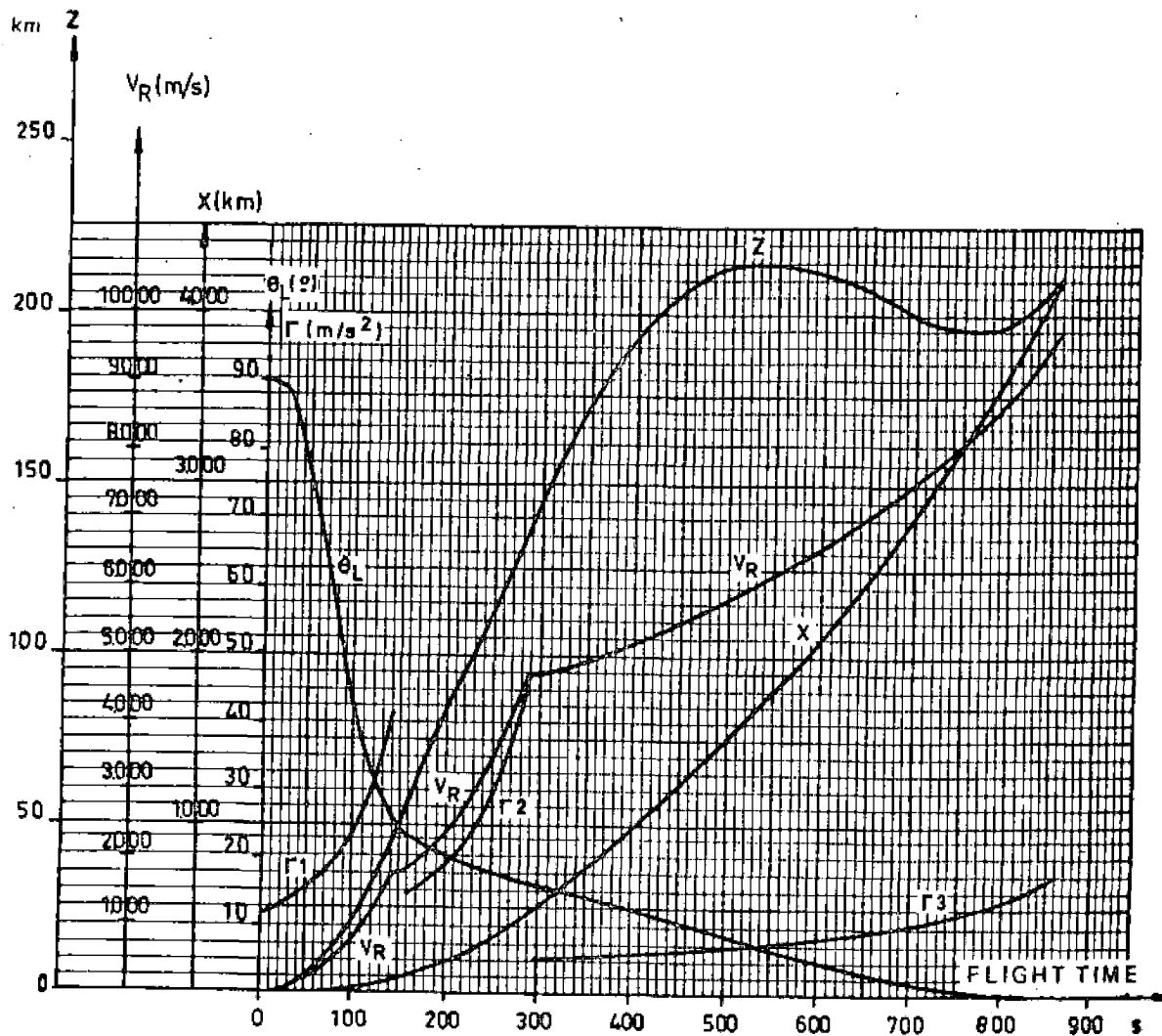


FIGURE 2-5 LAUNCH VEHICLE DATA  
TYPICAL TRAJECTORY - GEOSTATIONARY MISSION