Figure Captions

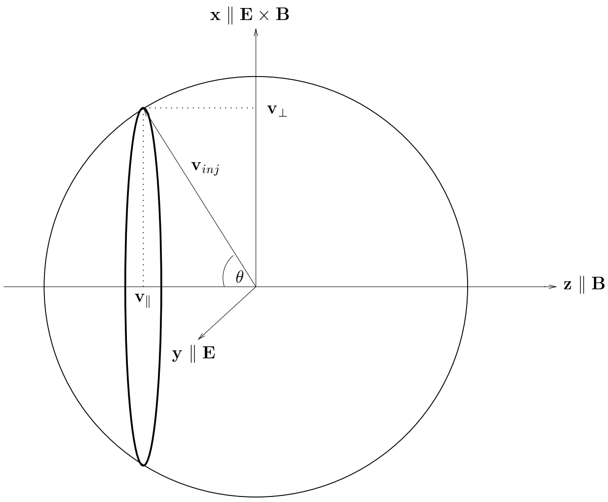

Figure 1. The pickup process in a solar wind magnetic field aligned frame.

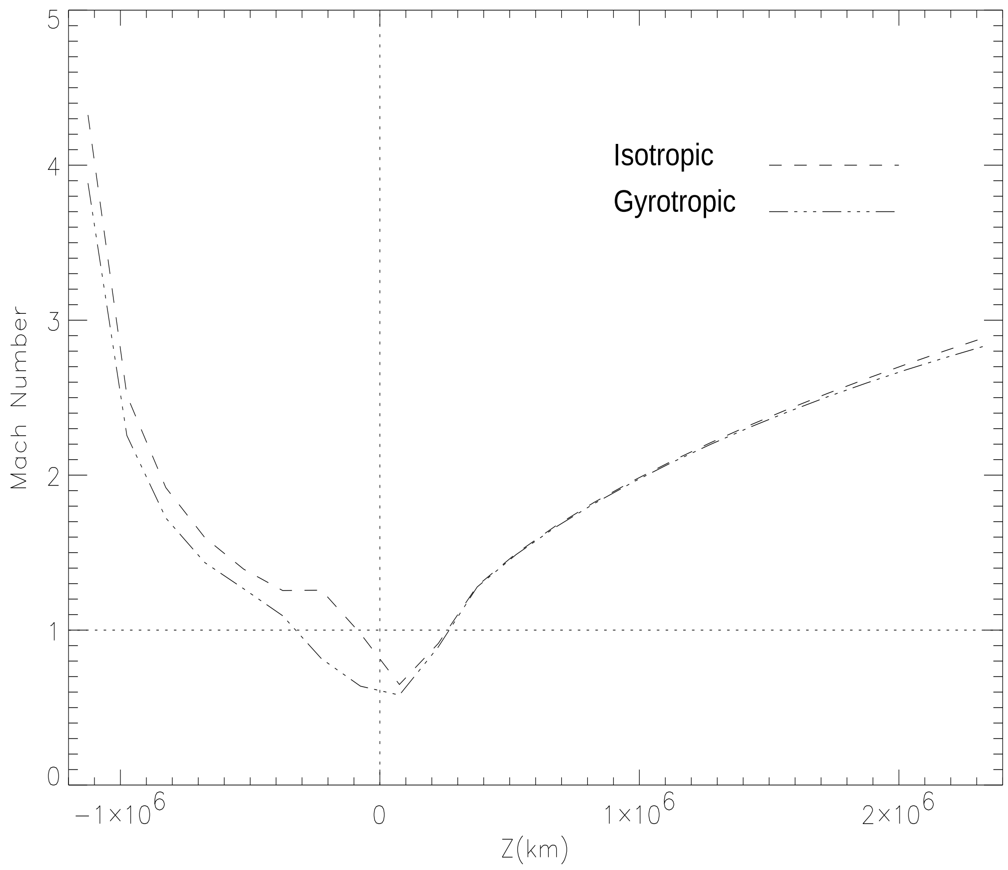

Figure 2. Solar-Wind Mach number along the sun-comet line.

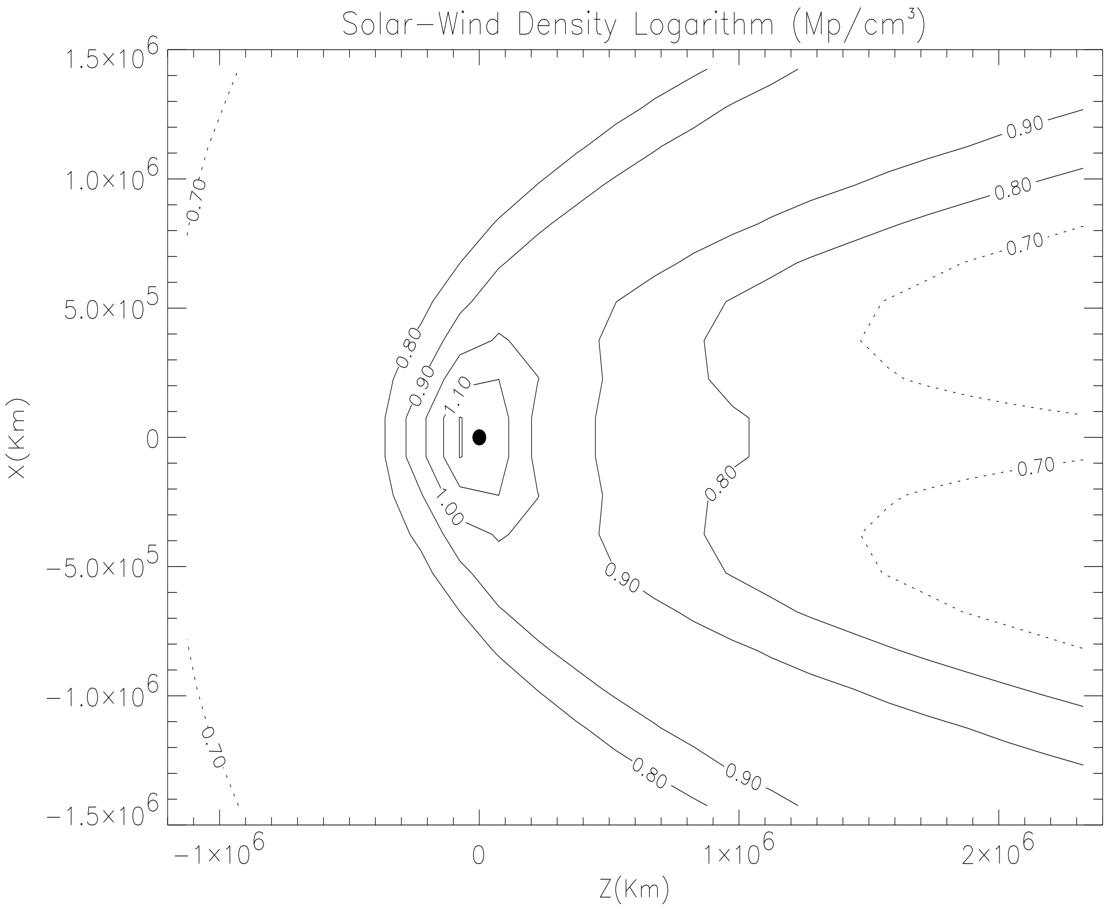

Figure 3. Contours of Solar-Wind density logarithm.

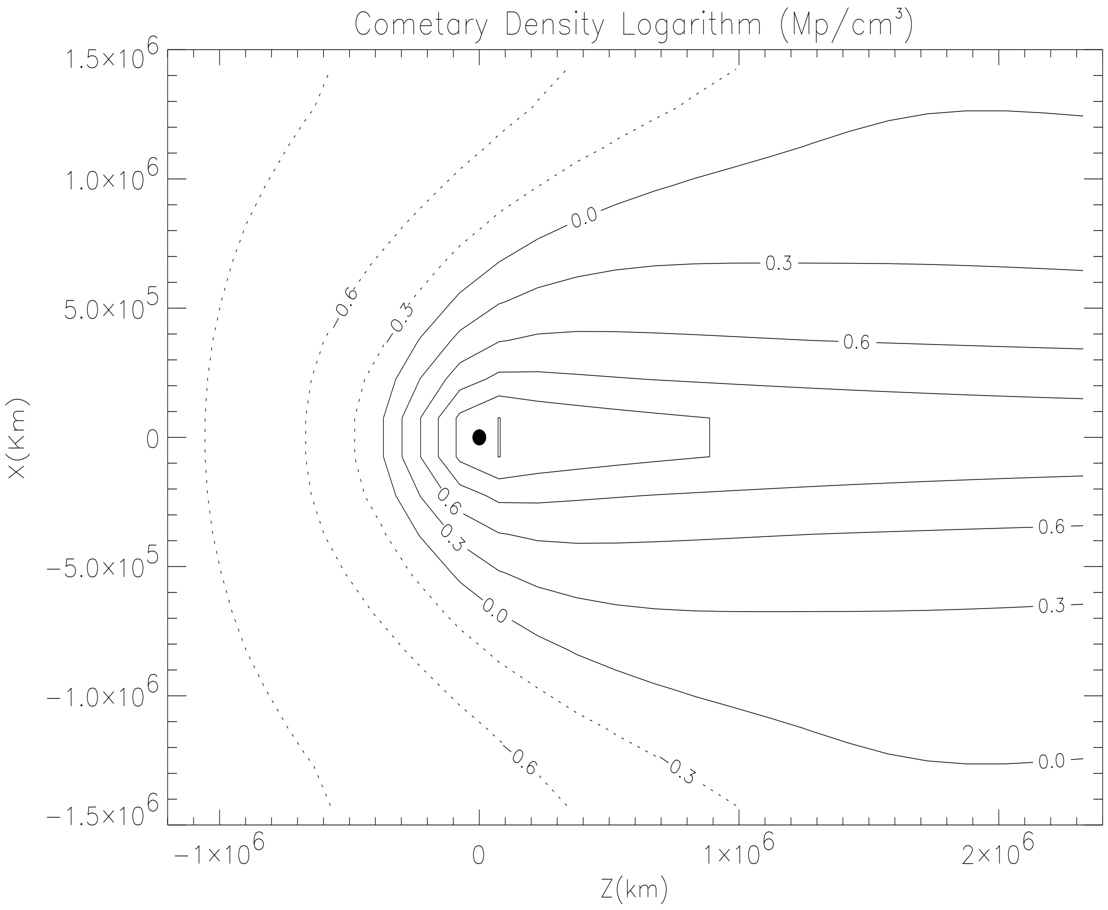

Figure 4. Contours of cometary plasma density logarithm

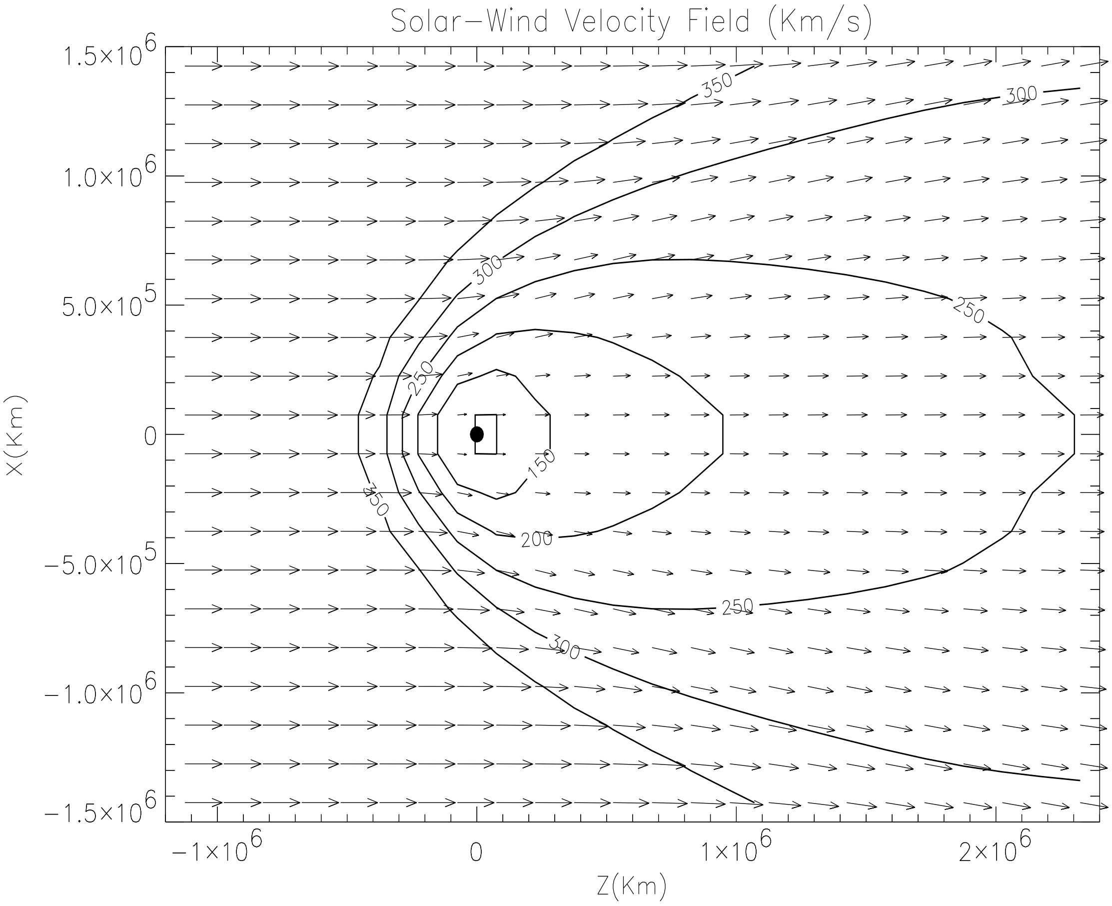

Figure 5. The velocity field of the Solar-Wind.

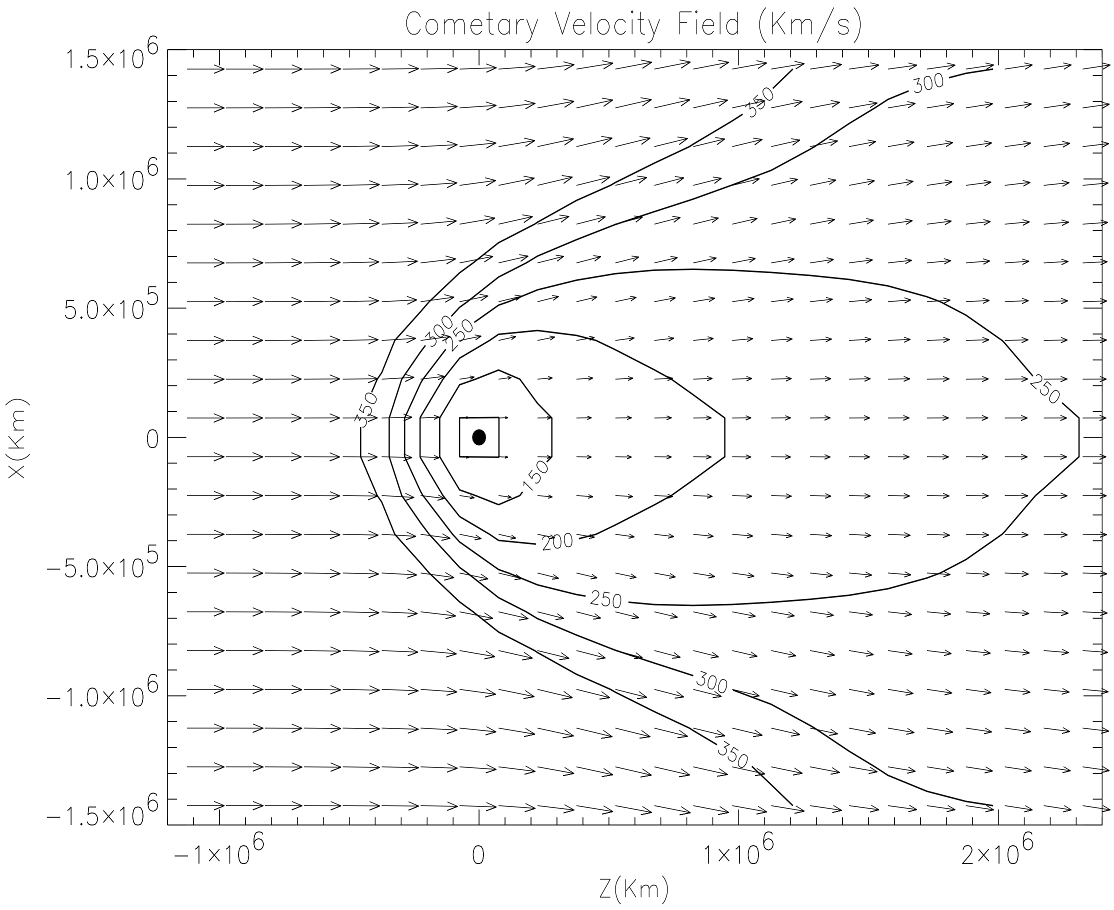

Figure 6. The velocity field of the cometary plasma.

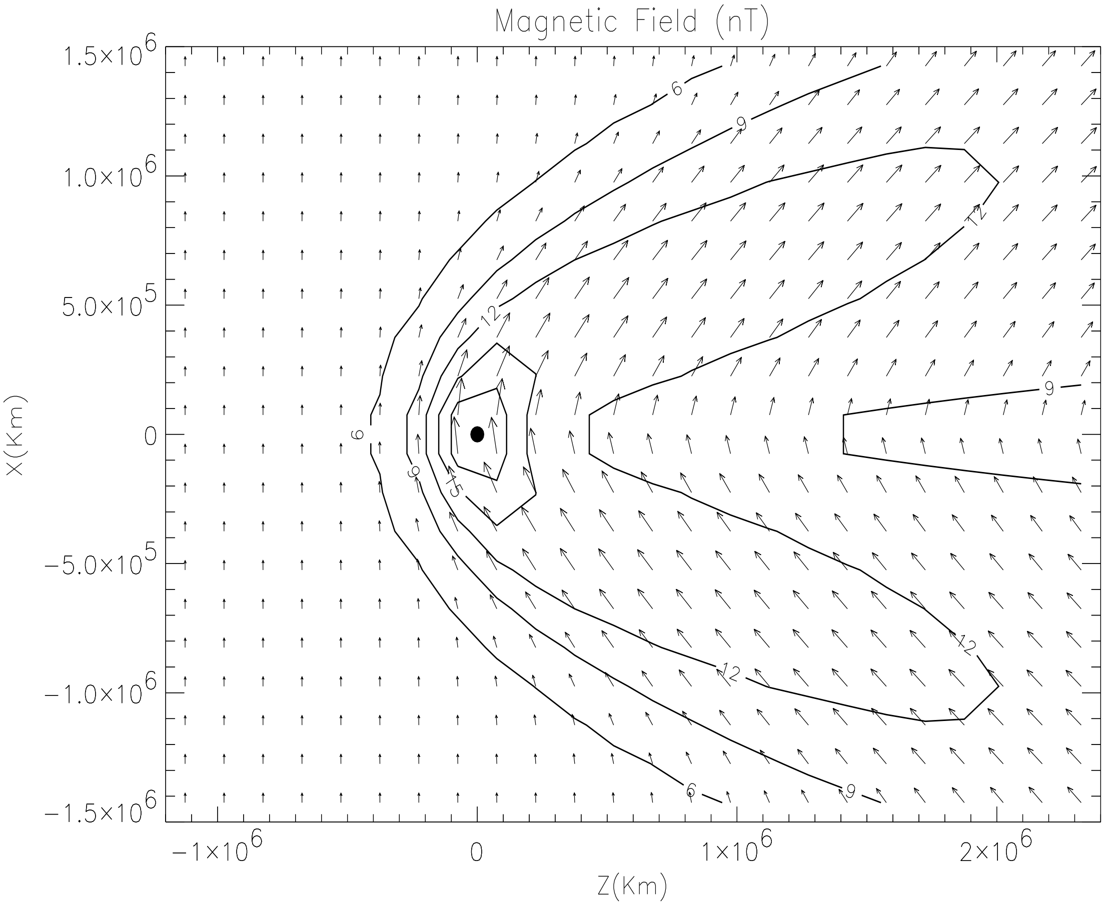

Figure 7. The magnetic field.

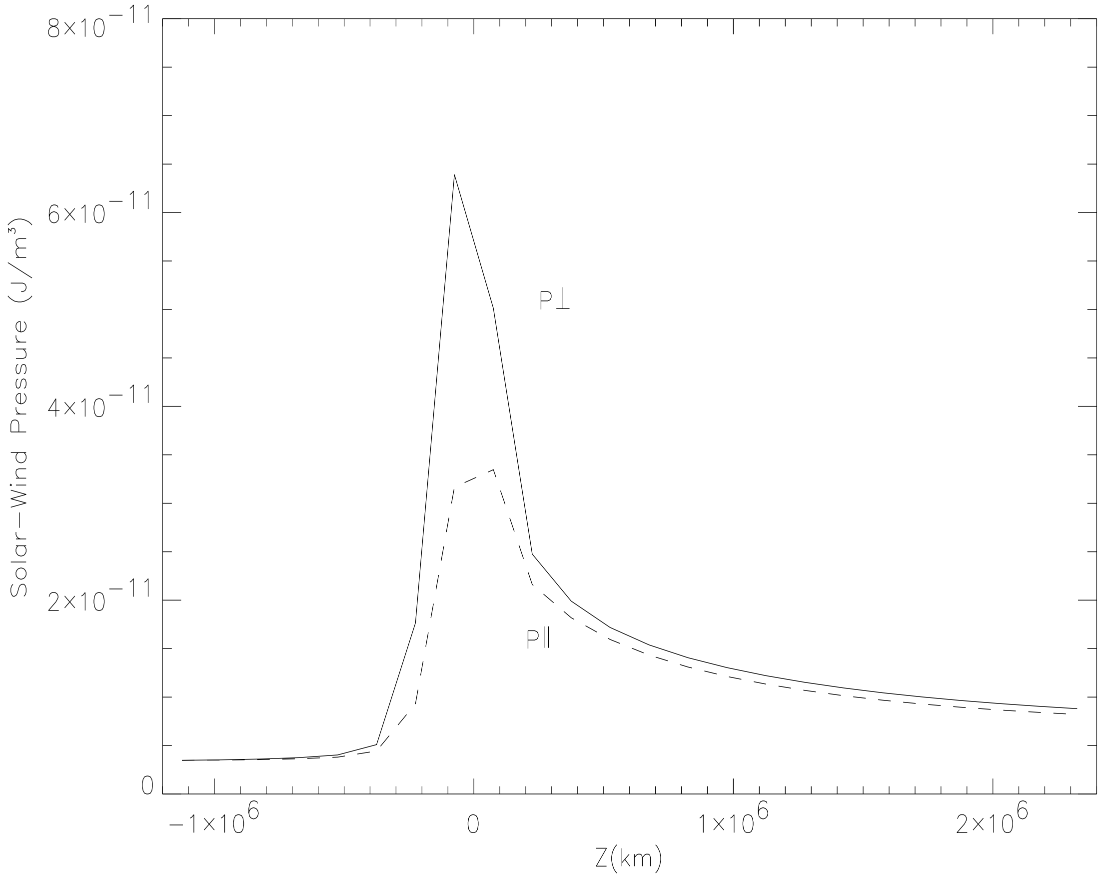

Figure 8. Solar-Wind perpendicular and parallel pressure along the sun-comet line.

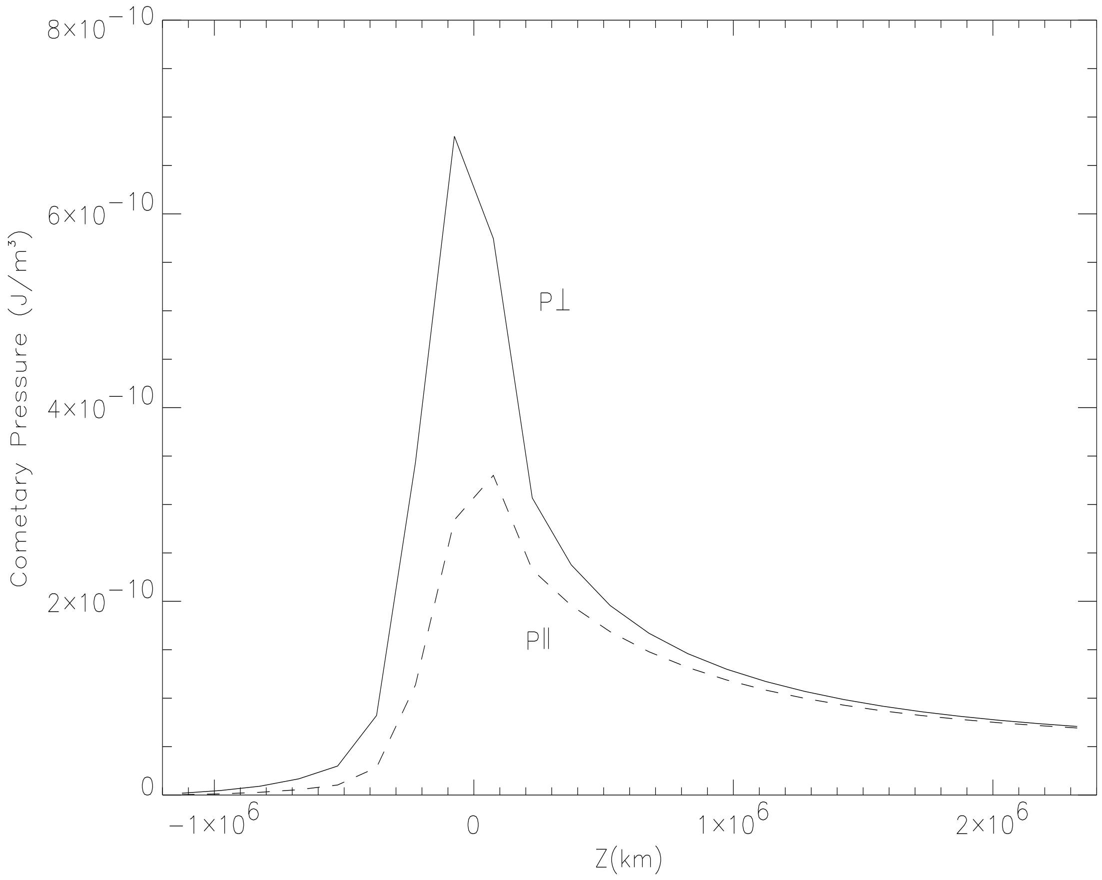

Figure 9. Cometary plasma perpendicular and parallel pressure along the sun-comet line.

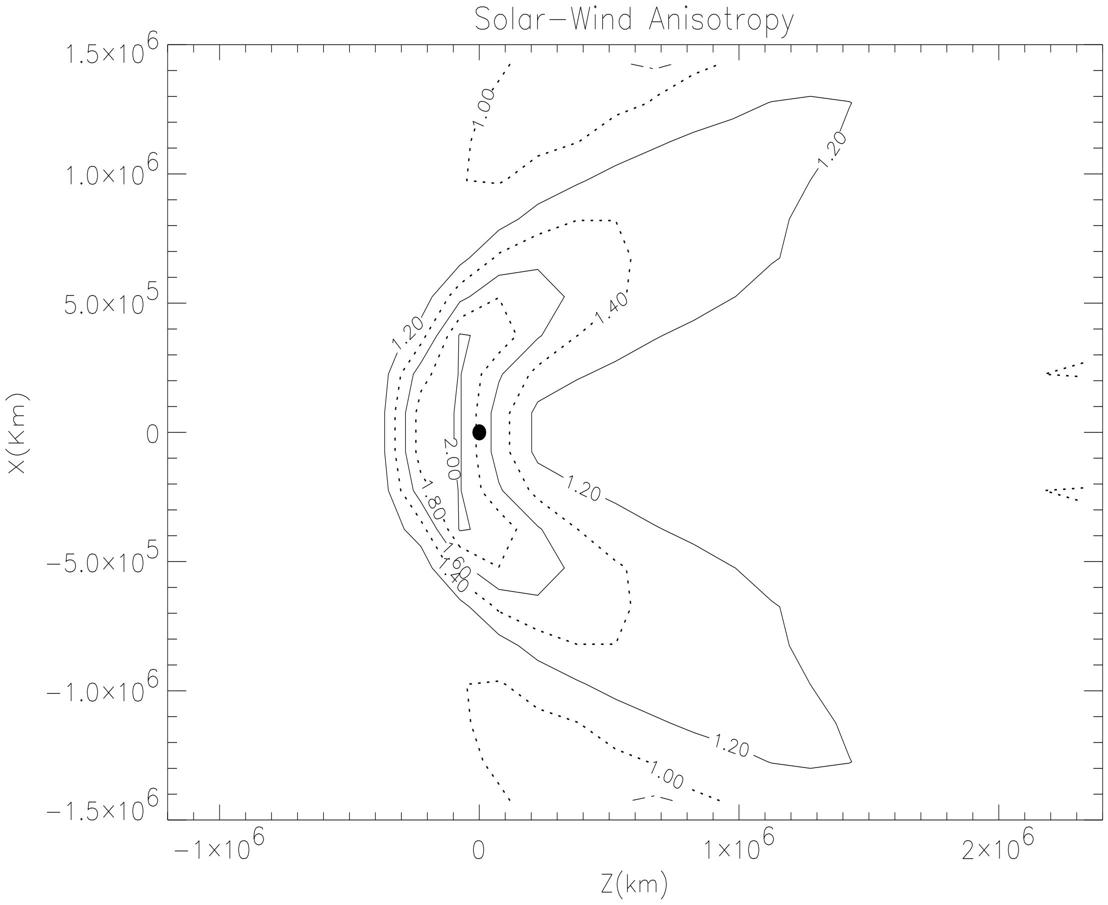

Figure 10. Pressure anisotropy of the Solar-Wind.

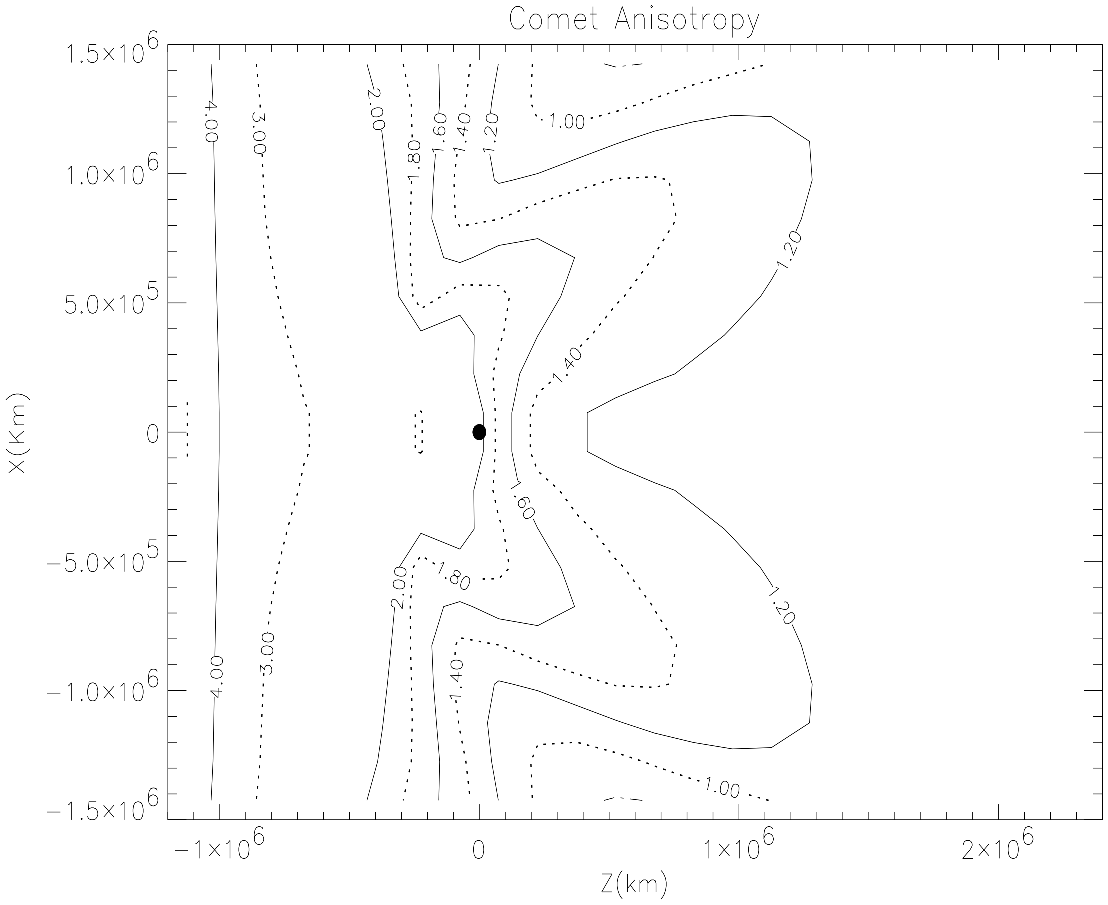

Figure 11. Pressure anisotropy of the cometary plasma.

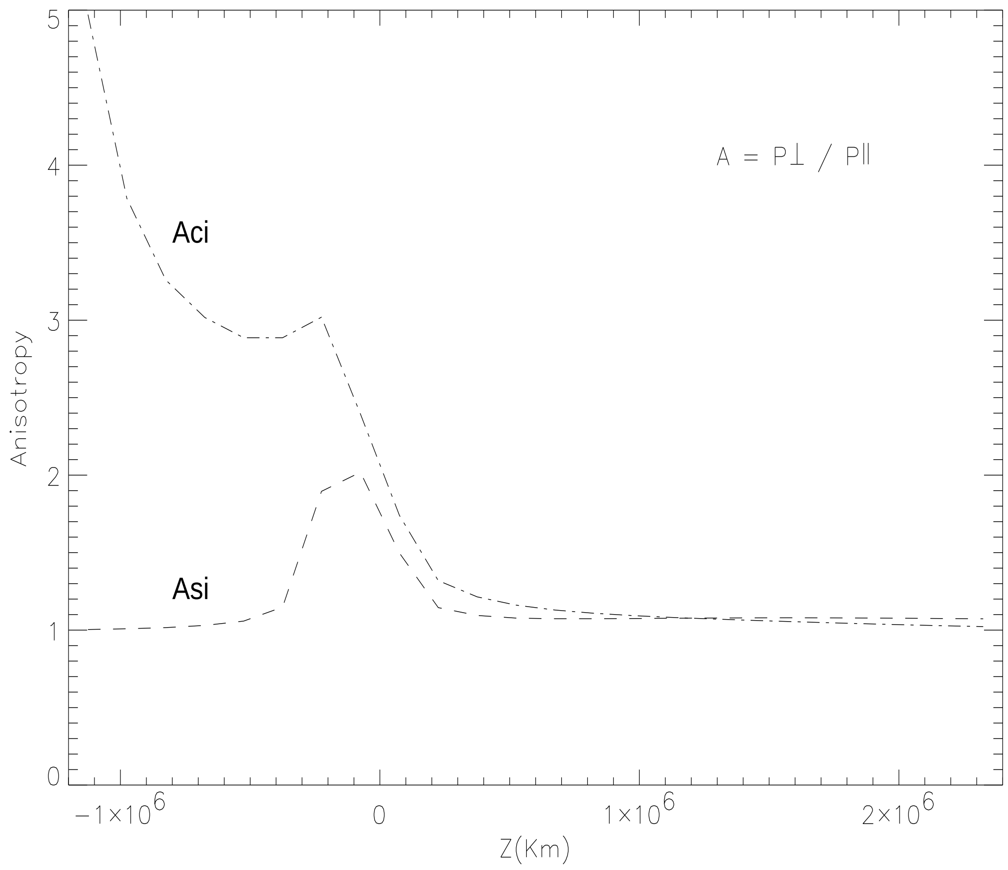

Figure 12. Pressure anisotropy of the two fluids along the sun comet line.

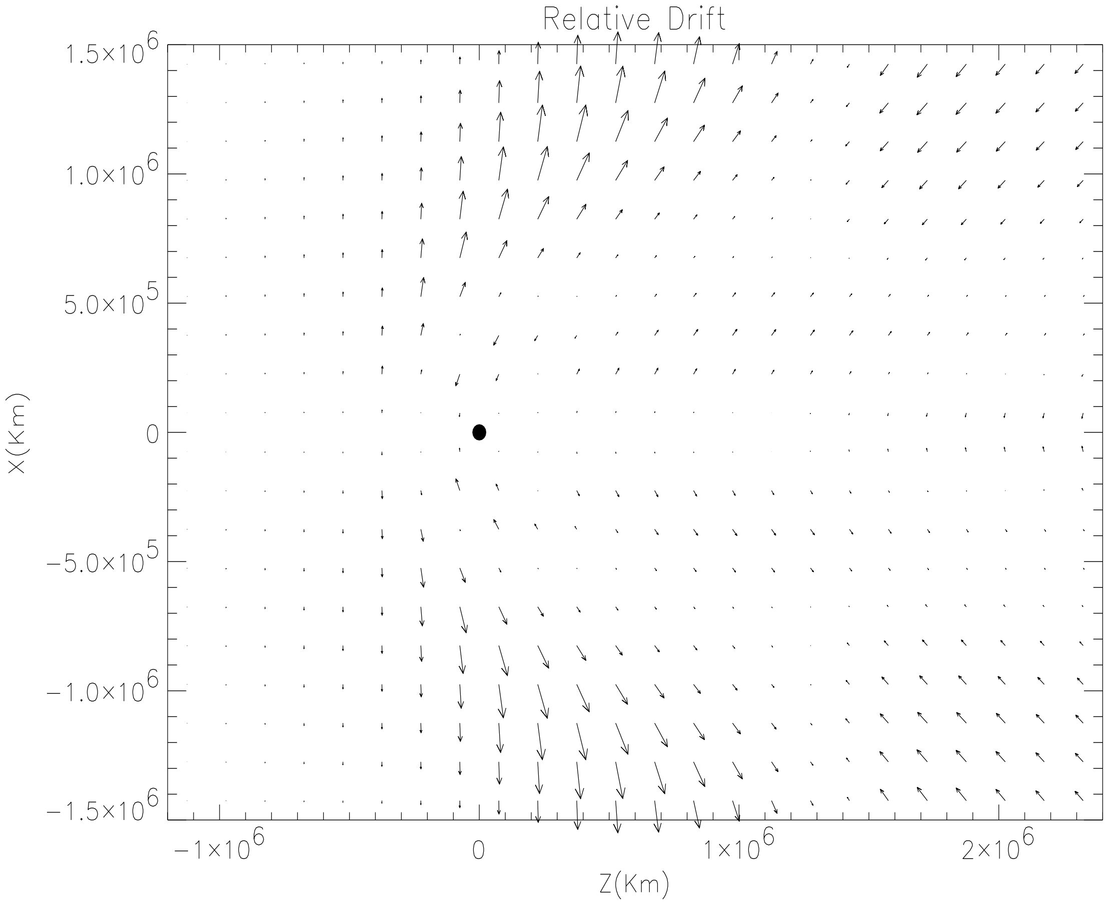

Figure 13. Relative drift velocity vectors $\mathbf{U_d}$ of the two fluids.

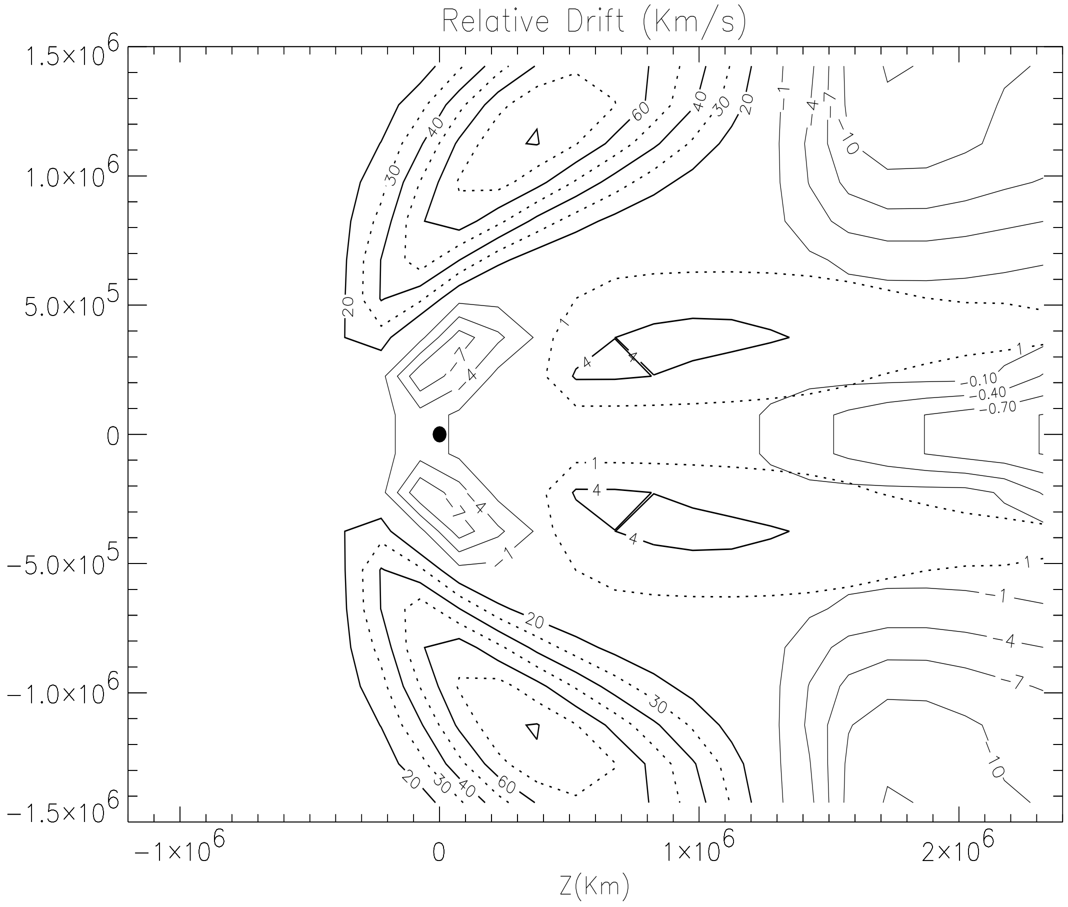

Figure 14. Contours of relative drift velocity of the two fluids.

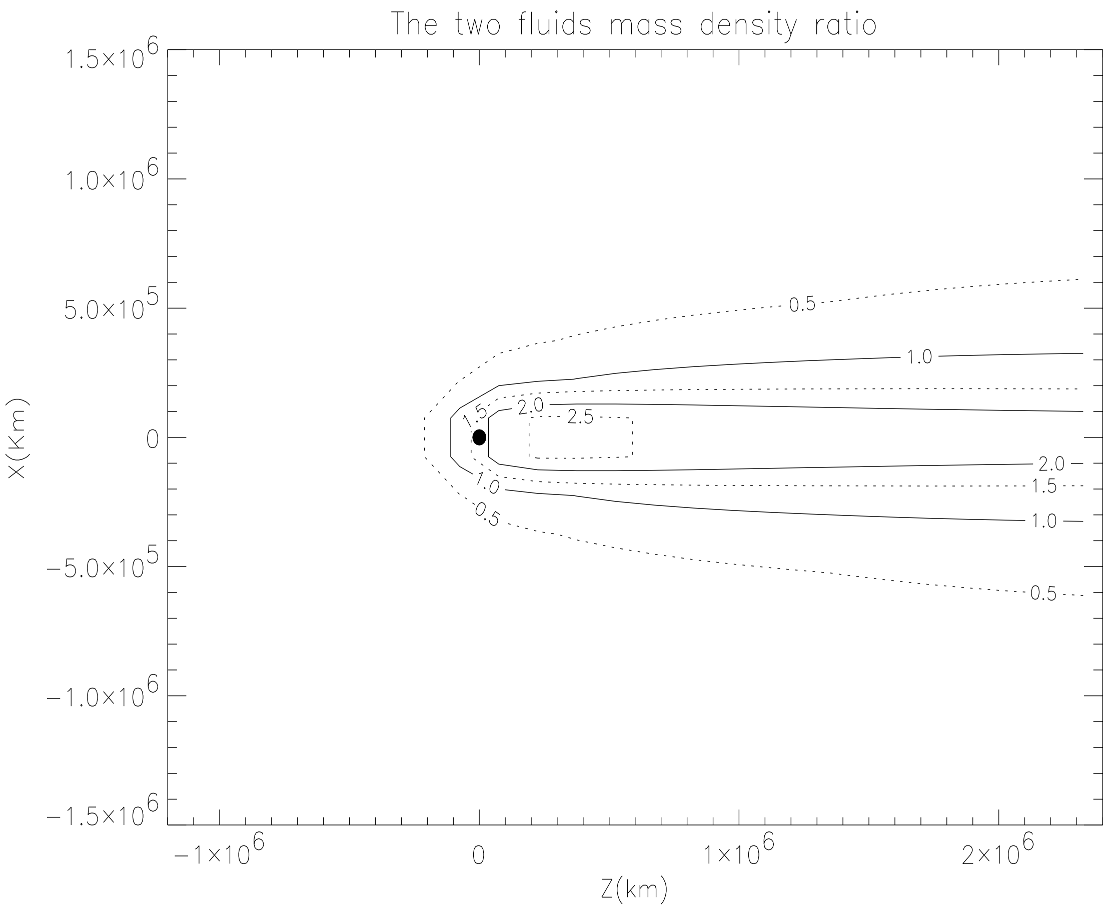

Figure 15. Mass density ratio of the cometary plasma to the solar-wind ρ_{ci}/ρ_{si}.

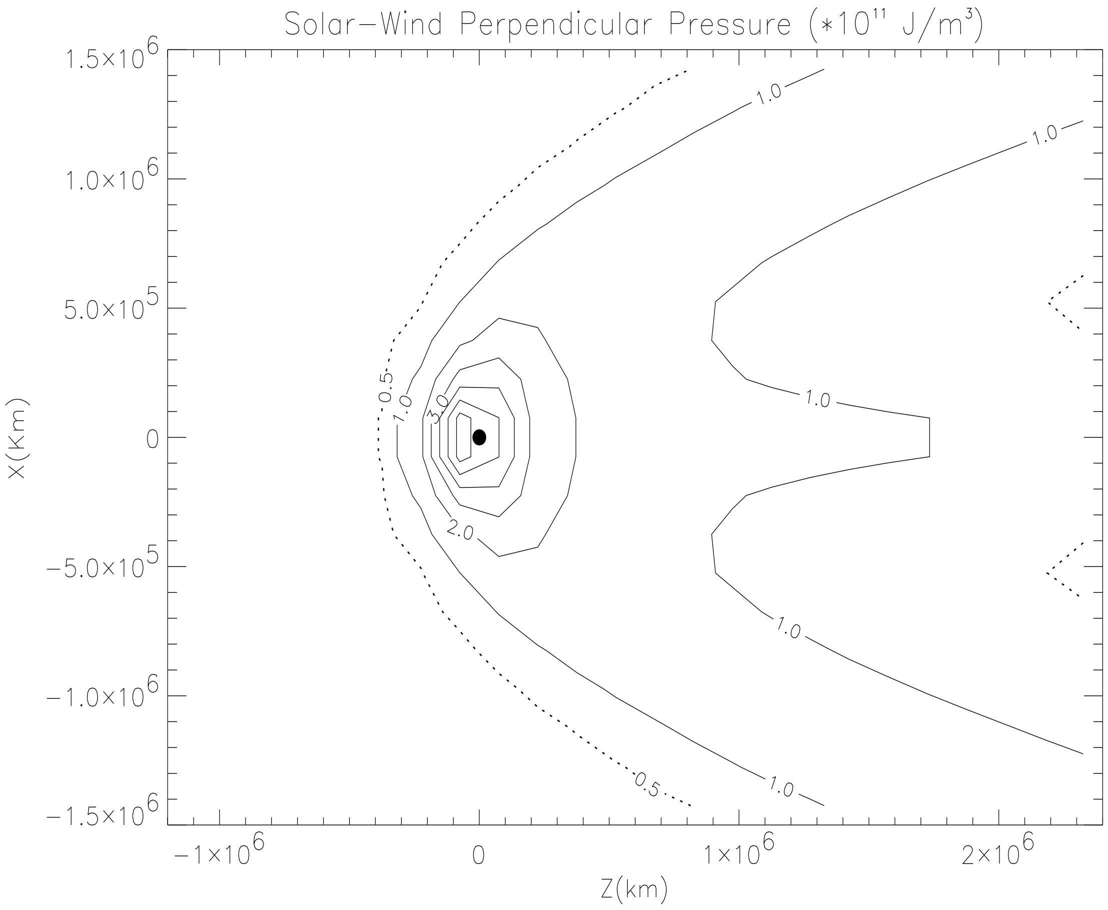

Figure 16. Contours of solar-wind perpendicular pressure.

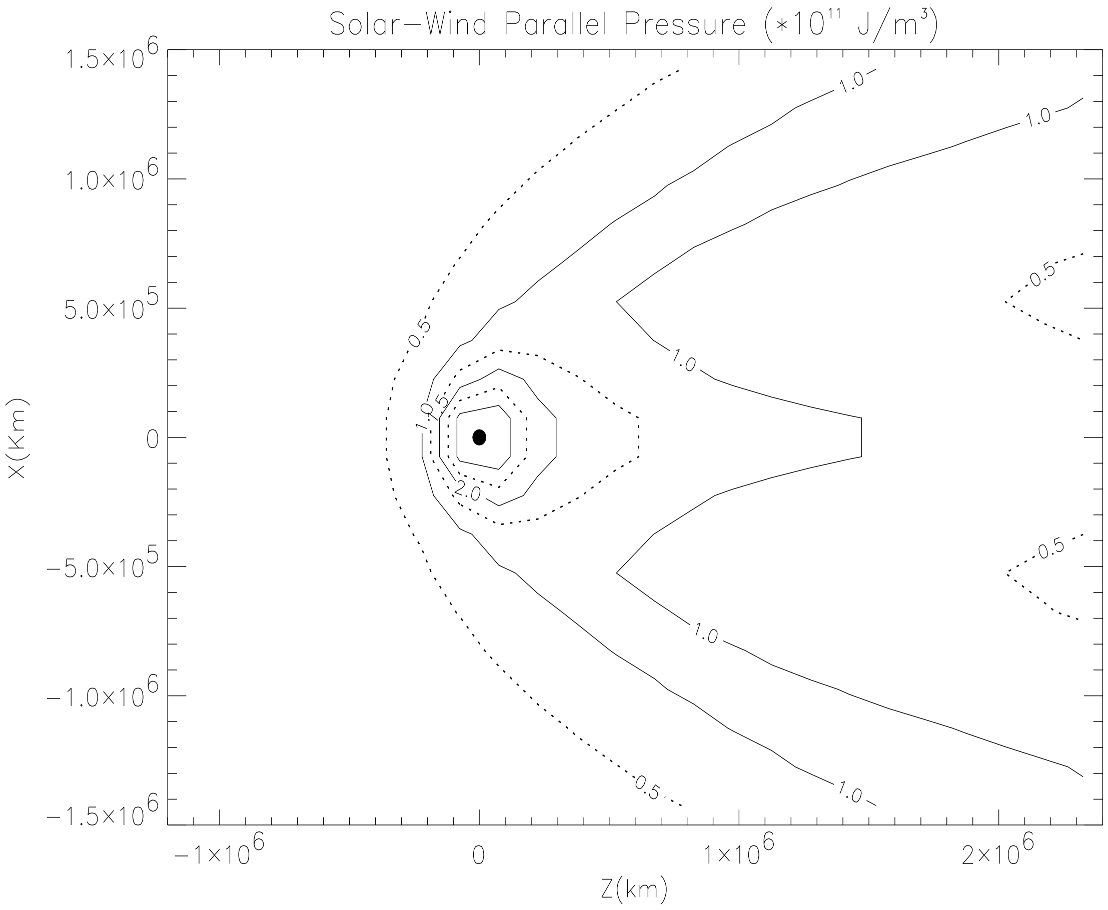

Figure 17. Contours of solar-wind parallel pressure.

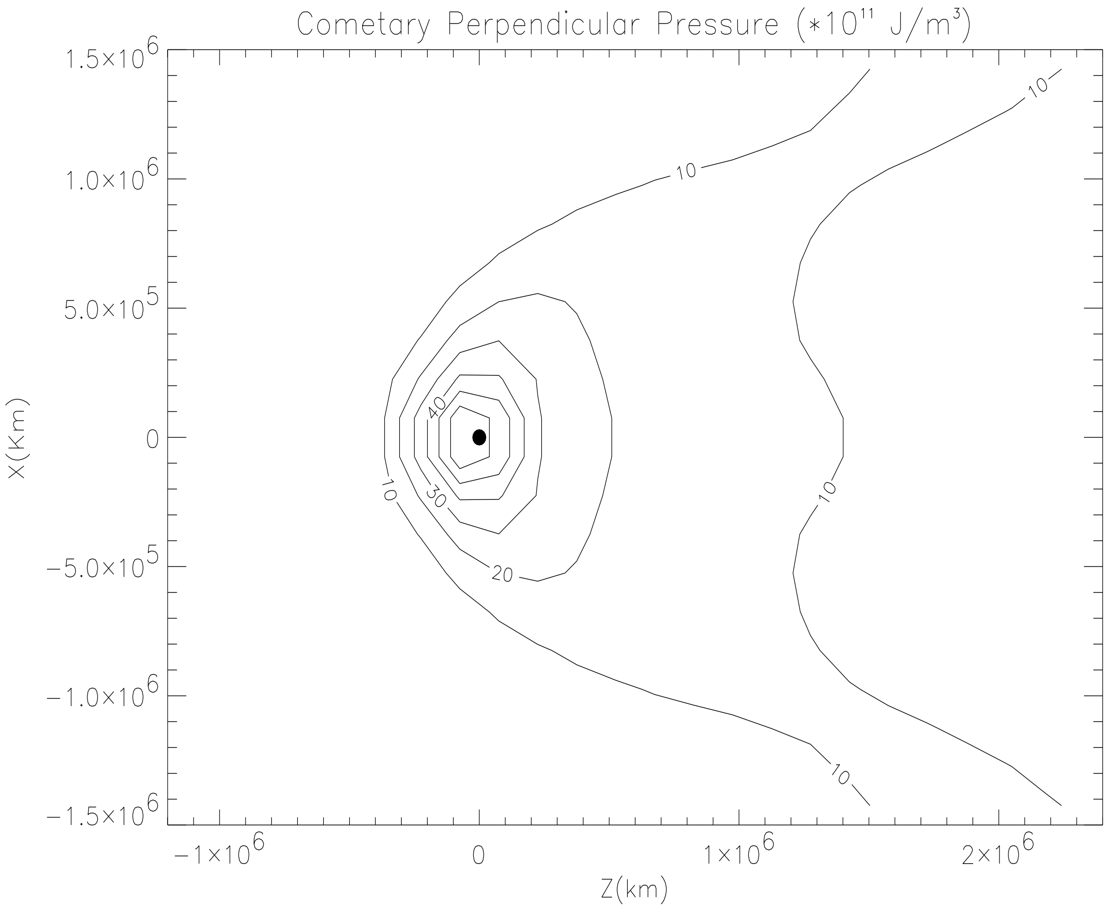

Figure 18. Contours of cometary plasma perpendicular pressure.

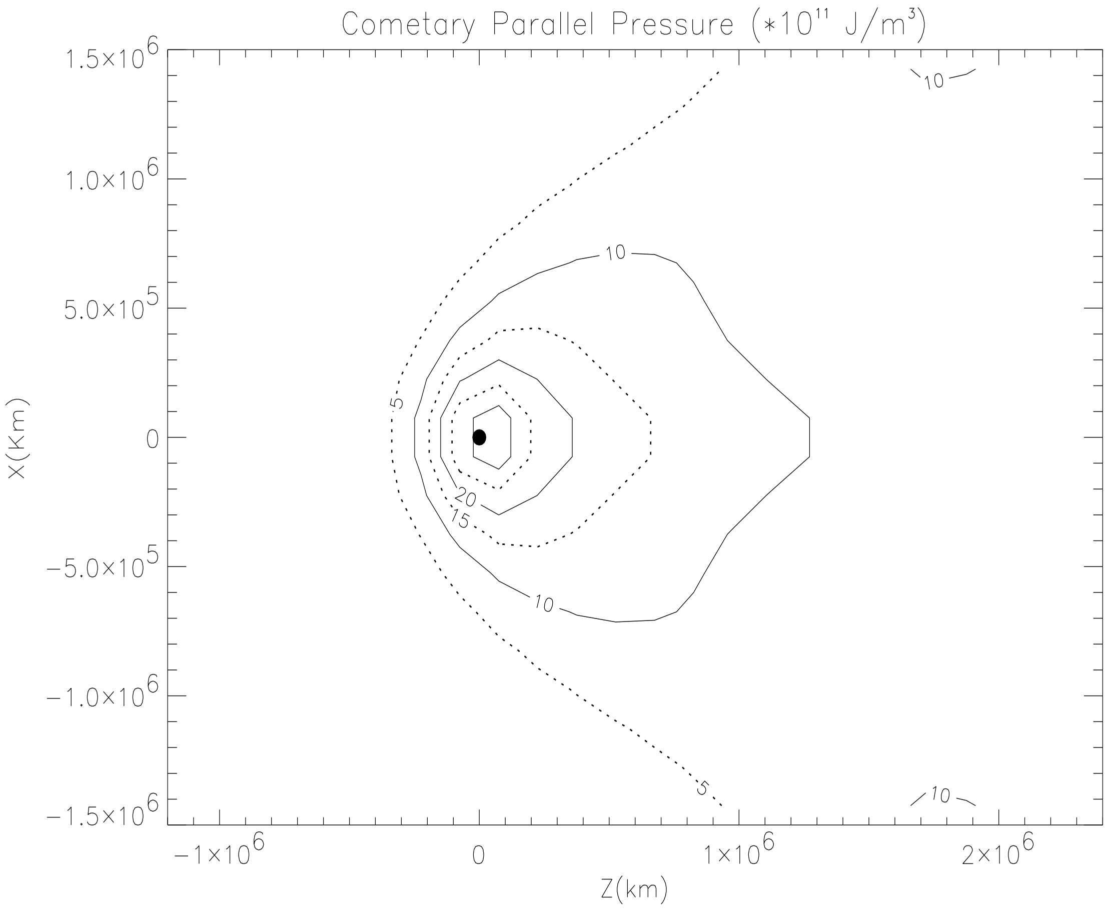

Figure 19. Contours of cometary plasma parallel pressure.

Tables

Table 1a.

Undisturbed Solar-Wind			
Mass of a solar wind ion[1]	$m_{si} = 1M_p$		
Densities	$\rho_{si} = 5\frac{M_p}{cm^3}$	$\rho_{ci} = 0.1\frac{M_p}{cm^3}$	
Temperature	$T_{si} = 5 \cdot 10^4 K$	$T_{ci} = 5 \cdot 10^4 K$	
Anisotropy[2]	$A_{si} = 1$	$A_{ci} = 1$	
Velocity	$U_{x_{si}} = 0.$	$U_{y_{si}} = 0.$	$U_{z_{si}} = 400.\frac{Km}{s}$
	$U_{x_{ci}} = 0.$	$U_{y_{ci}} = 0.$	$U_{z_{ci}} = 400.\frac{Km}{s}$
Magnetic field	$B_x = 5.nT$	$B_y = 0.$	$B_z = 0.$

[1] Mp is the mass of a proton.
[2] $A = \frac{P_\perp}{P_\parallel}$

Table 1b.

Comet's Parameters	
Mass of a cometary ion	$m_{ci} = 20M_p$
Production rate	$G = 10^{29}s^{-1}$
Ionization rate	$\sigma = 10^{-6}s^{-1}$
Neutral velocity	$W_n = 1\frac{Km}{s}$

Table 1c.

Grid and Time Parameters	
Domain	$(3 \cdot 10^6 Km \ , \ 3.6 \cdot 10^6 Km)$
Grid distance	$\Delta x = 1.5 \cdot 10^5 Km \quad \Delta z = 1.5 \cdot 10^5 Km$
Number of grid points	$Nx = 21 \quad Nz = 25$
Time step	$\Delta t = 50s$
Number of time steps	$n_t = 1000$