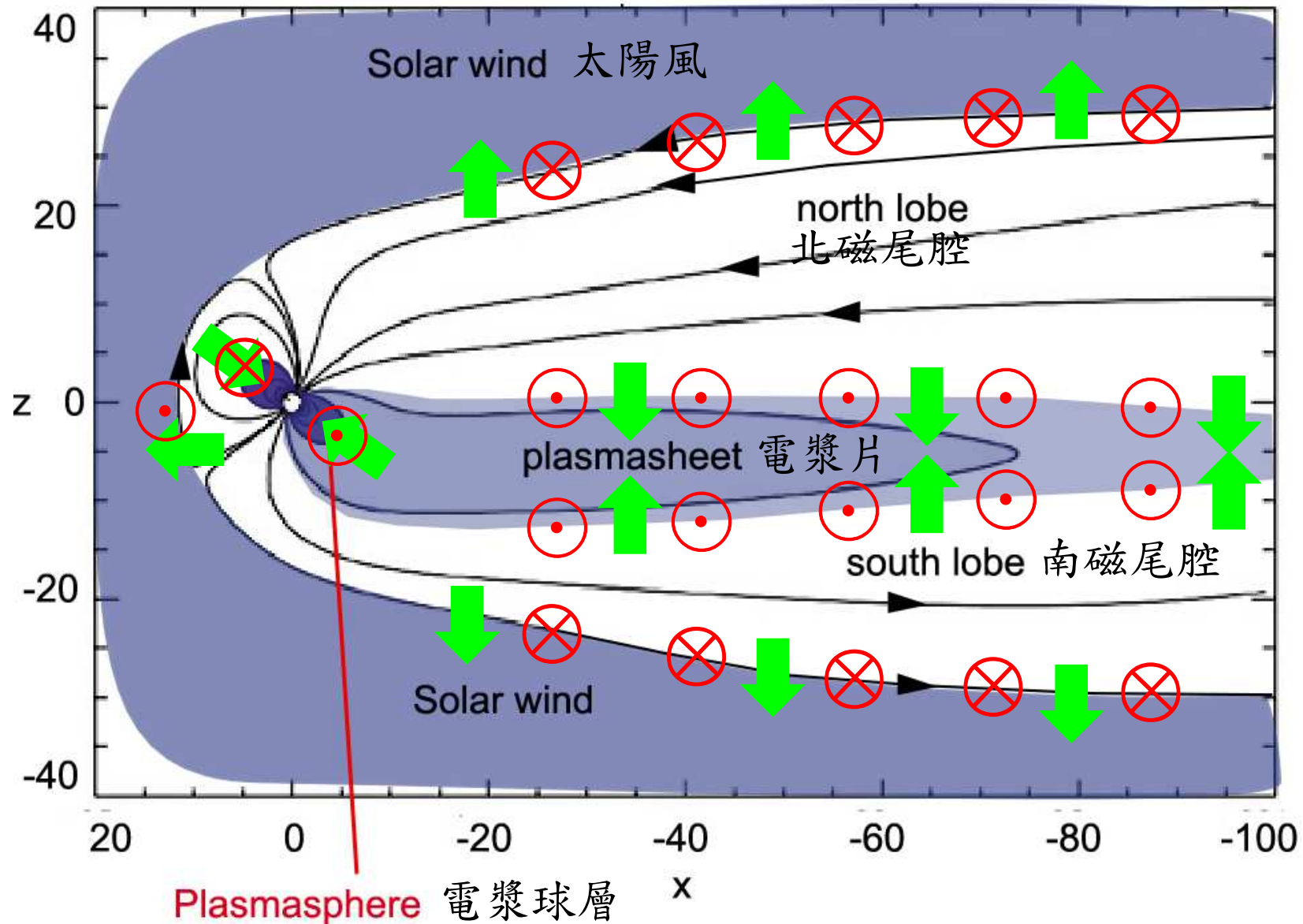
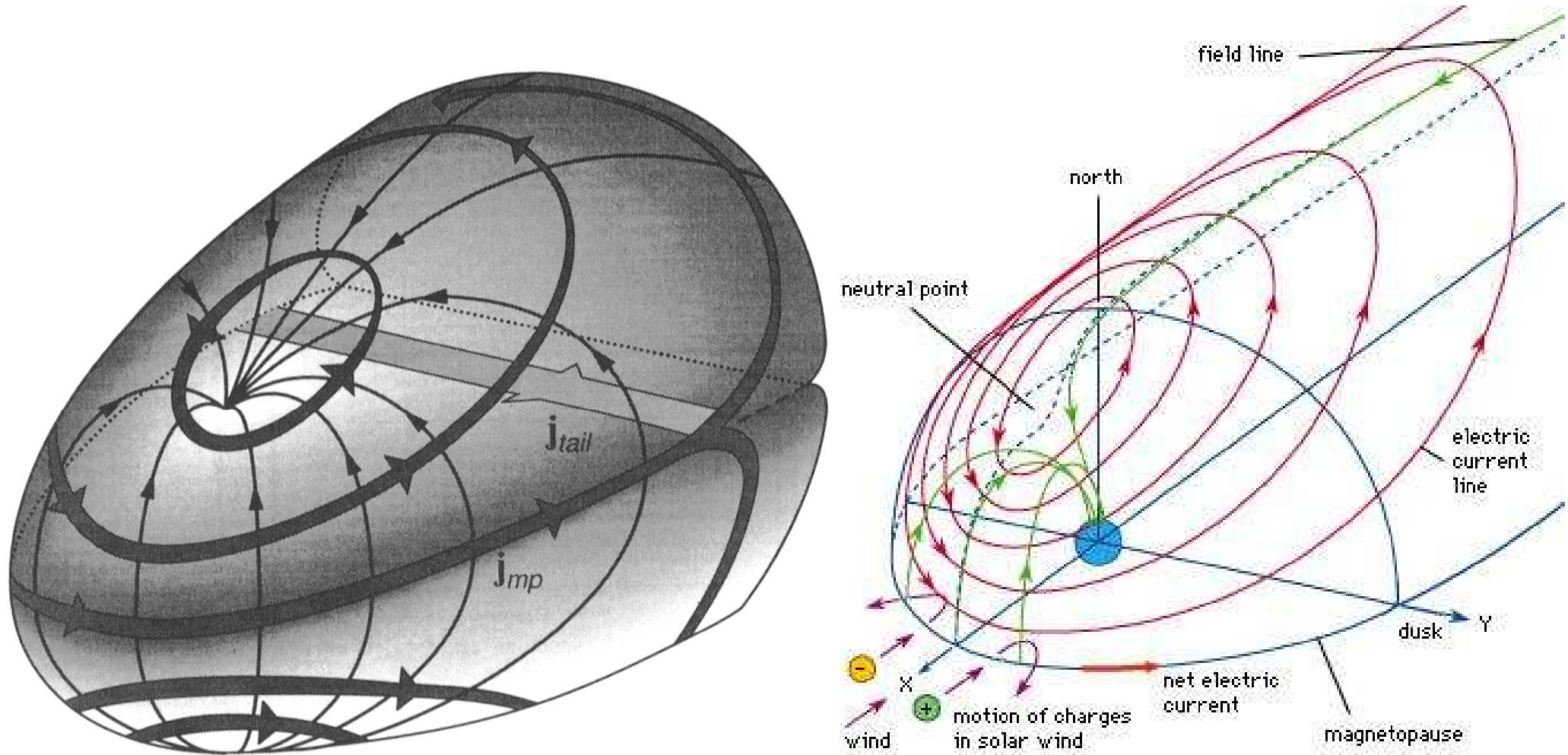


地球磁層子午面剖面圖

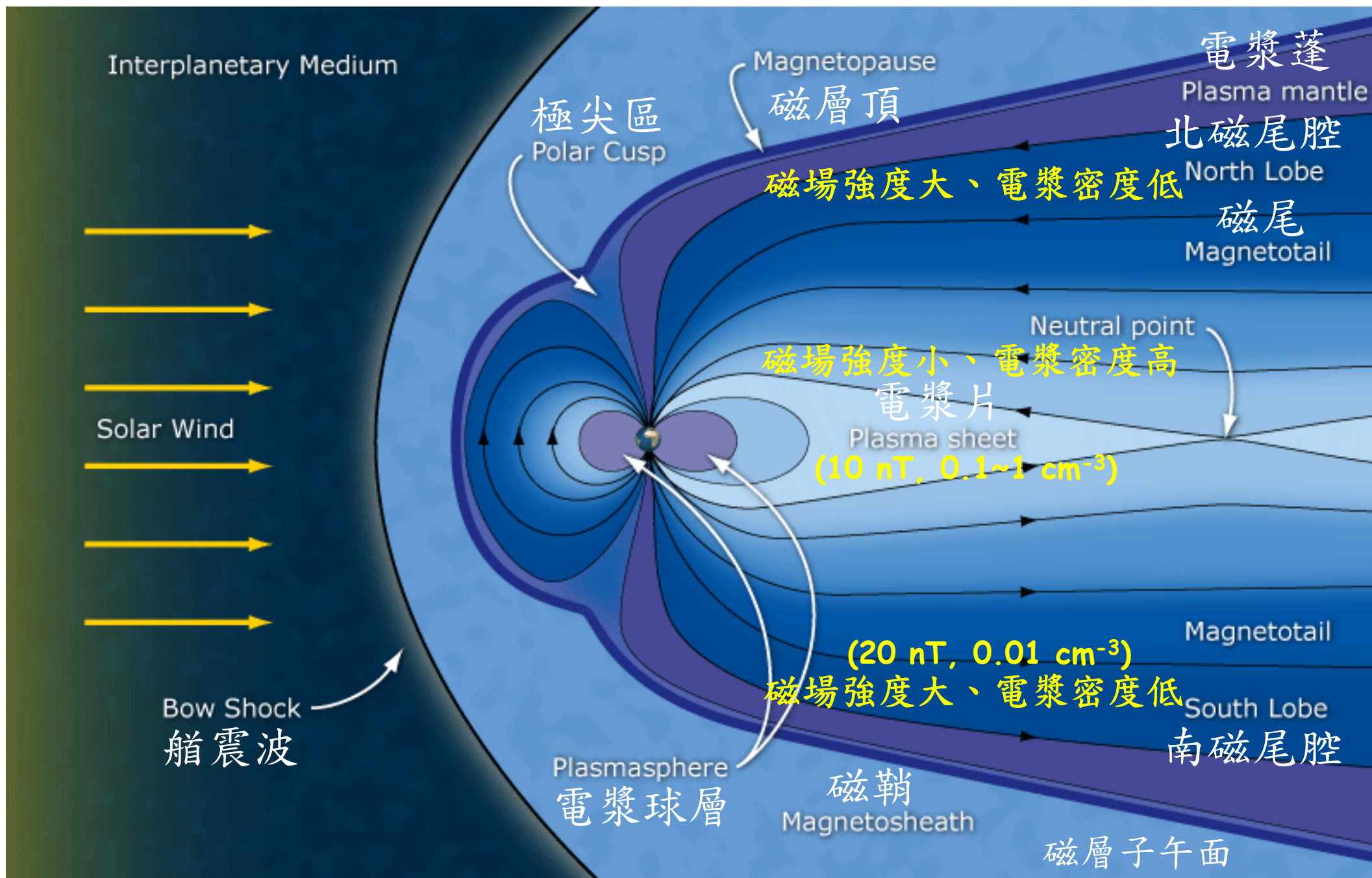
(綠色:電漿密度由小到大的方向，紅色:電流方向)

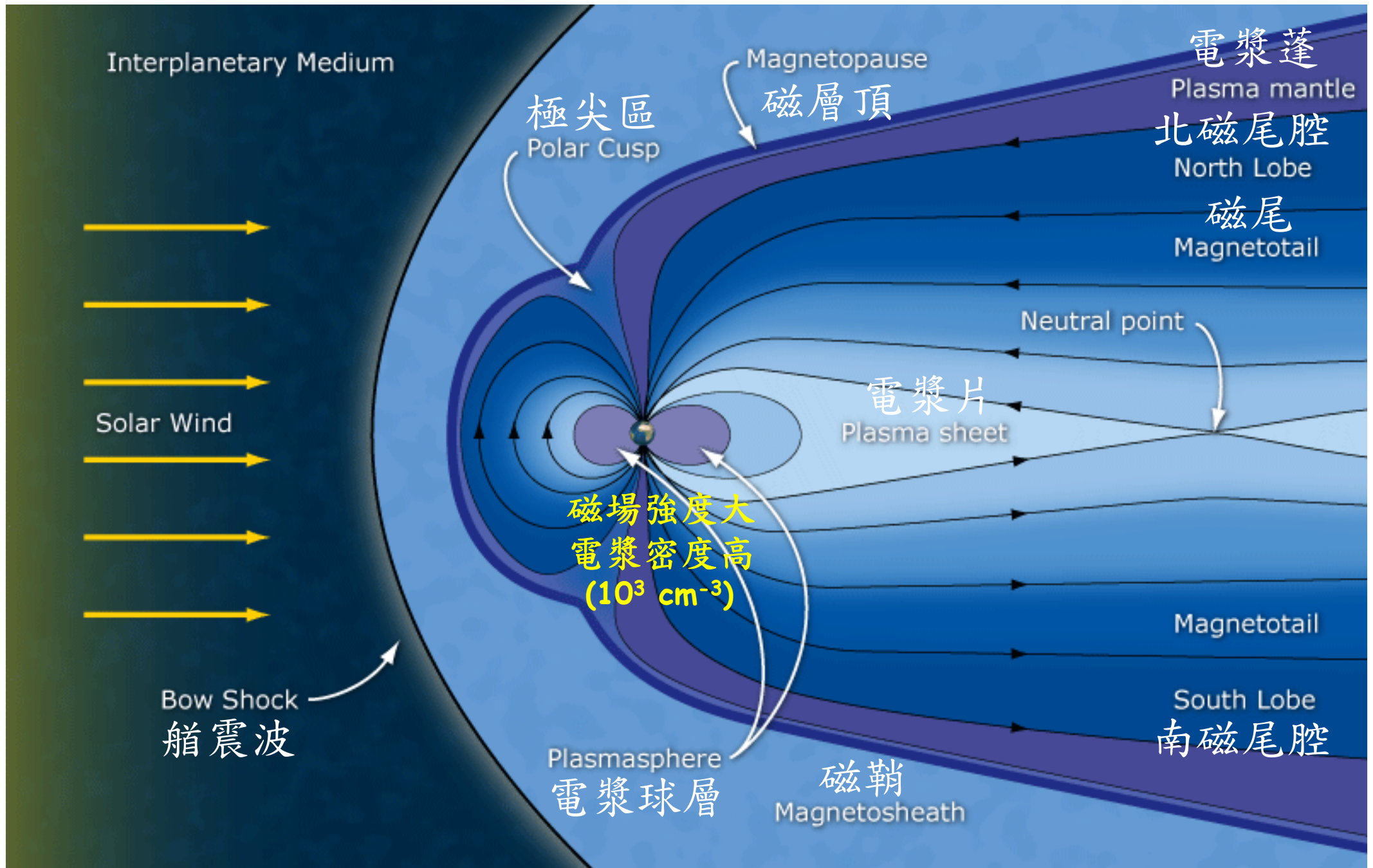


Magnetopause Current (or Chapman-Ferraro Current)

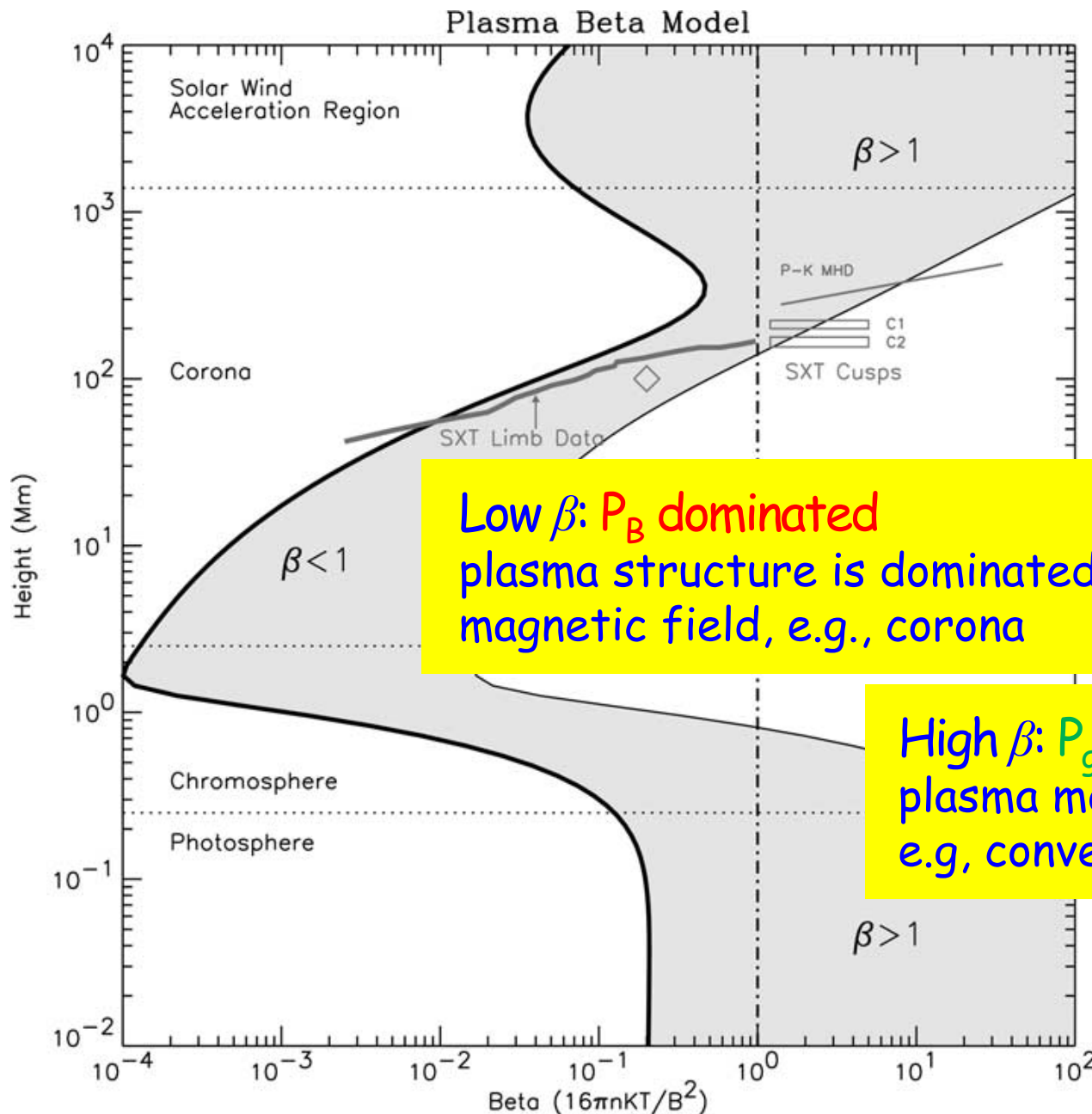


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Plasma Beta



plasma thermal pressure P_g

$$\beta = \frac{nkT}{\frac{B^2}{2\mu_0}}$$

magnetic pressure P_B

Low β : P_B dominated

plasma structure is dominated by the topology of magnetic field, e.g., corona

High β : P_g dominated

plasma motion drags the magnetic field, e.g., convection zone, solar wind

$\beta \ll 1$: cold plasma

$\beta \geq 1$: warm plasma