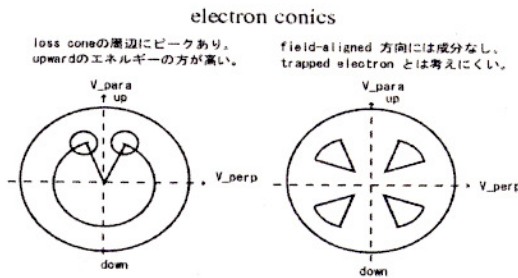


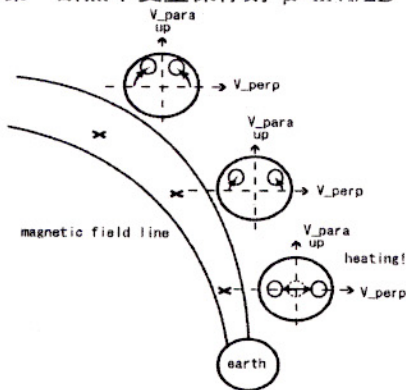
Generation Mechanism of Electron Conics

速度分布関数上での形状



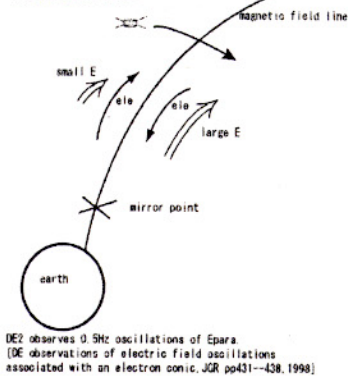
メカニズム1

第一断熱不変量保存則 $\mu = mv_{\perp}^2/2B$



メカニズム2

fluctuation of electric field model
 降下電子は衛星からミラーポイントを往復して戻ってくるのに約1秒かかる。
 降下電子はnetでエネルギーを得る。
 平行電場は約1Hzで変動。



Viking衛星の統計結果

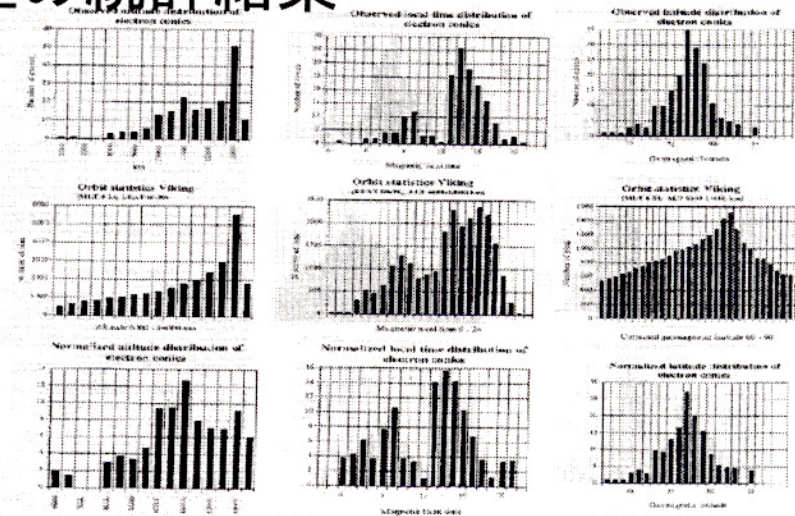


Figure 5. (a) The observed electron conic counts versus altitude. (b) The observed local time distribution of electron conics. (c) The observed latitude distribution of electron conics.

Figure 7. (a) The observed electron conic counts versus altitude. (b) The observed local time distribution of electron conics. (c) The observed latitude distribution of electron conics.

Figure 9. (a) The observed electron conic counts versus altitude. (b) The observed local time distribution of electron conics. (c) The observed latitude distribution of electron conics.