

## CRITERIA FOR OBSERVING AN ELECTRON DIFFUSION REGION IN THE MAGNETOPAUSE

- I LARGE LOCAL CURRENT DENSITY
- II SIZE  $\sim 10$  ELECTRON SKIN DEPTHS
- III LARGE ELECTRIC FIELD
- IV EVIDENCE THAT  $\mathbf{E} + \mathbf{U}_e \times \mathbf{B} \neq 0$ 
  - a) by  $(\mathbf{E} + \mathbf{U}_e \times \mathbf{B})_{\text{PERP}} \neq 0$
  - b) by  $E_{\text{PARALLEL}} \neq 0$
- V INDICATION THAT A TERM ON RHS OF THE  
GENERALIZED OHM'S LAW IS NOT ZERO