Week 44

Lecture 20:

- Ohm's law
- Electric conductivity
- Resistivity
- Ionospheric conductivity
- Pedersen, Hall and Birkelandcurrent

Lecture 21:

- Mobility coefficients
- Conductivity tensor/3x3 matrix
- v_e and v_i rotating with altitude

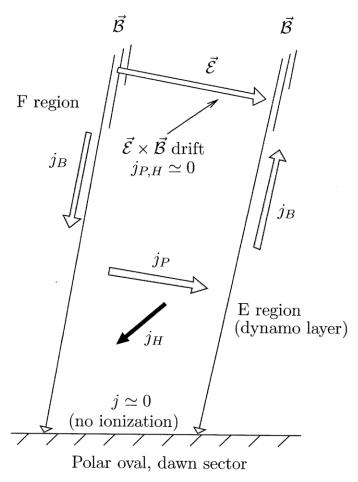
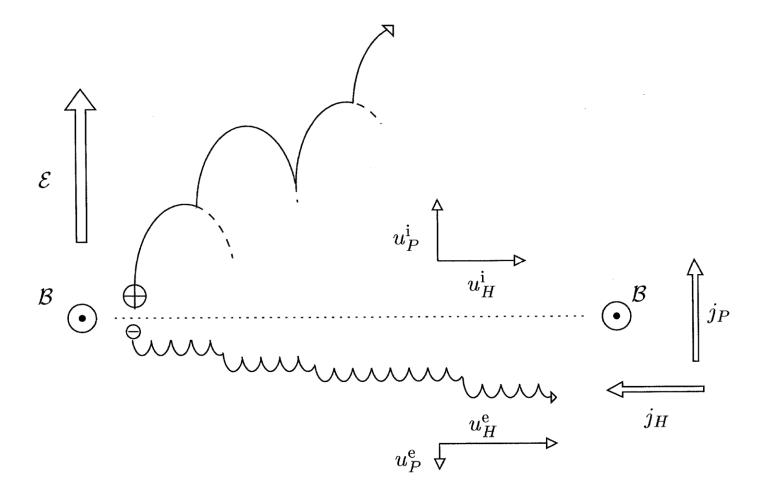
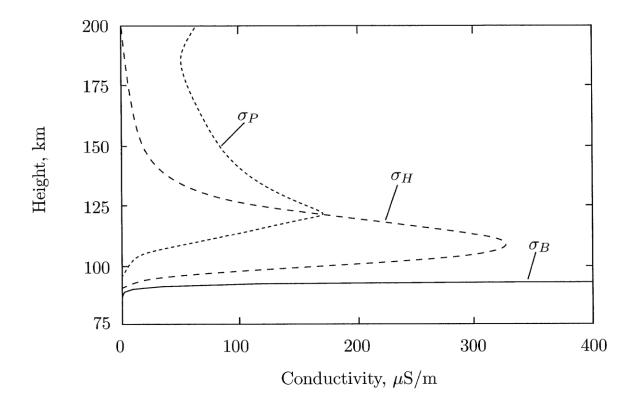
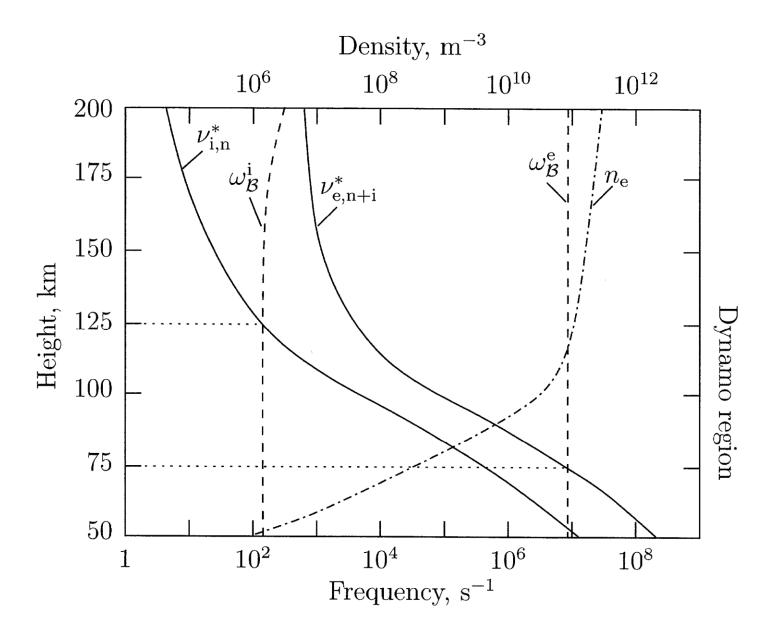


Fig. 7.9. Height distribution of ionospheric currents. j_B, j_P and j_H denote the Birkeland, Pedersen and Hall current densities, respectively.







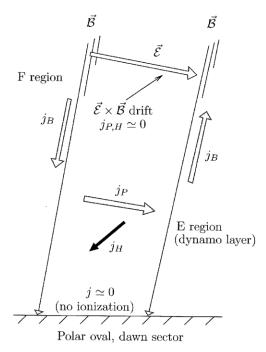


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