Jupiter Magnetosphere

- **Satellite potential in the outer and middle magnetosphere**

46-33 Rj

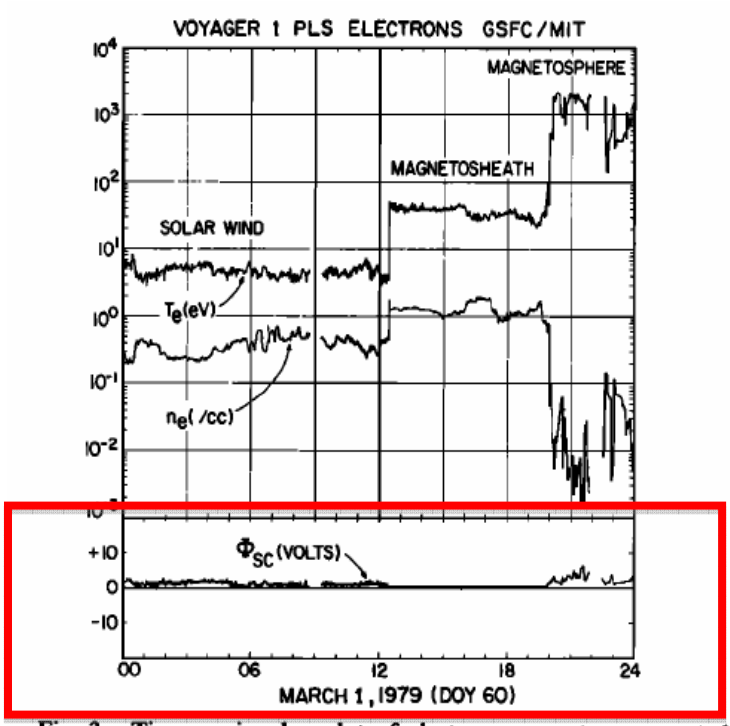
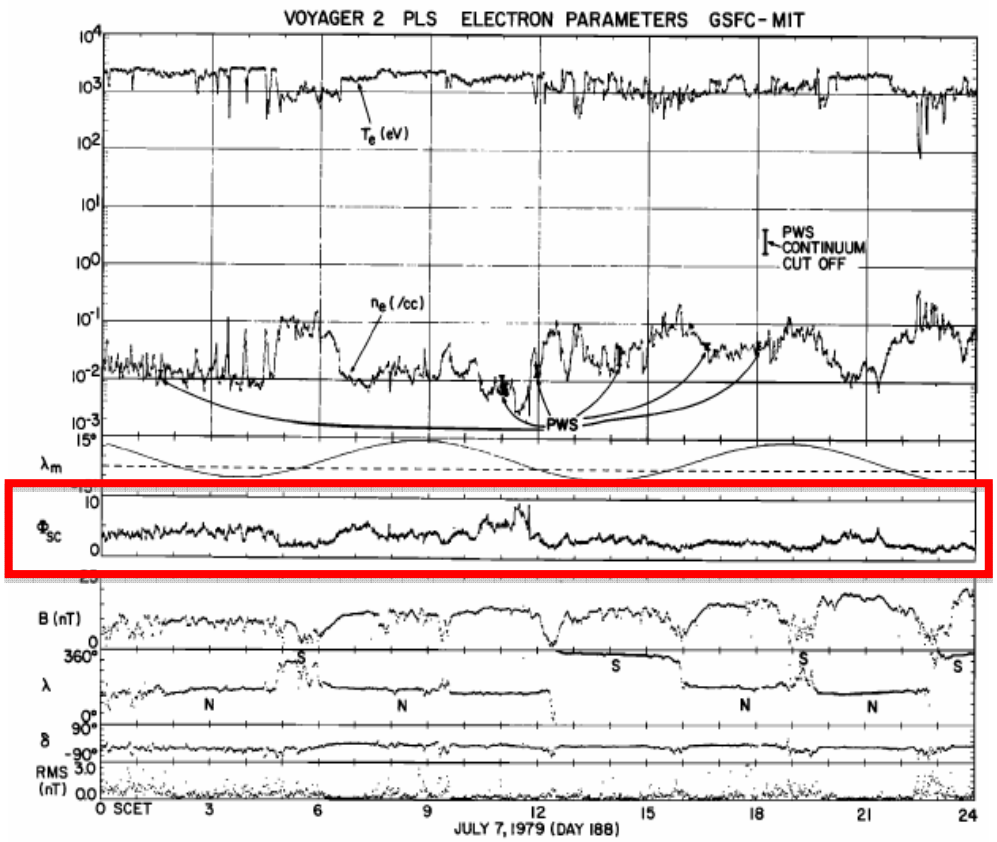


Fig. 3. Times series day plot of electron parameters computed from Voyager 1 PLS electron measurements on March 1, 1979 (DOY 60), when the spacecraft crossed Jupiter's bow shock, magnetopause, and boundary layer. In the top panel the nearly model independent total electron number density n_e and electron temperature T_e are displayed. The same vertical scale is used for both n_e and T_e where cgs units are used for n_e and electron volts (eV) for T_e. The spacecraft potential Φ_{SC} in volts is given in the lower panel. Solar wind, magnetosheath, and magnetosphere regimes are indicated.



From Voyager Faraday cups (Scudder et al., 1981)
(Nicolas André, private communication)