



Figure 1. (a) The D.C. electric field. (b) Langmuir probe current. A 2 nA current roughly corresponds to $\sim 1 \text{ cm}^{-3}$ cold density or $\sim 0.1 \text{ cm}^{-3}$ hot density. (c) Wave power as measured by the Plasma Wave Tracker (PWT). The white line is f_{ce} and spin modulations can be seen in these data. The frequency axis extends over only 25 kHz. The PWT covers a $\sim 15 \text{ kHz}$ frequency band that included f_{ce} . The center frequency is updated once every second. (d) High-frequency omni-directional electric field wave power. The white line is f_{ce} . (e) Low-frequency perpendicular wave power. The white line is f_{H+} . (f-g) Electron energy flux versus energy and time and versus pitch angle and time. (h-i) Ion energy flux.