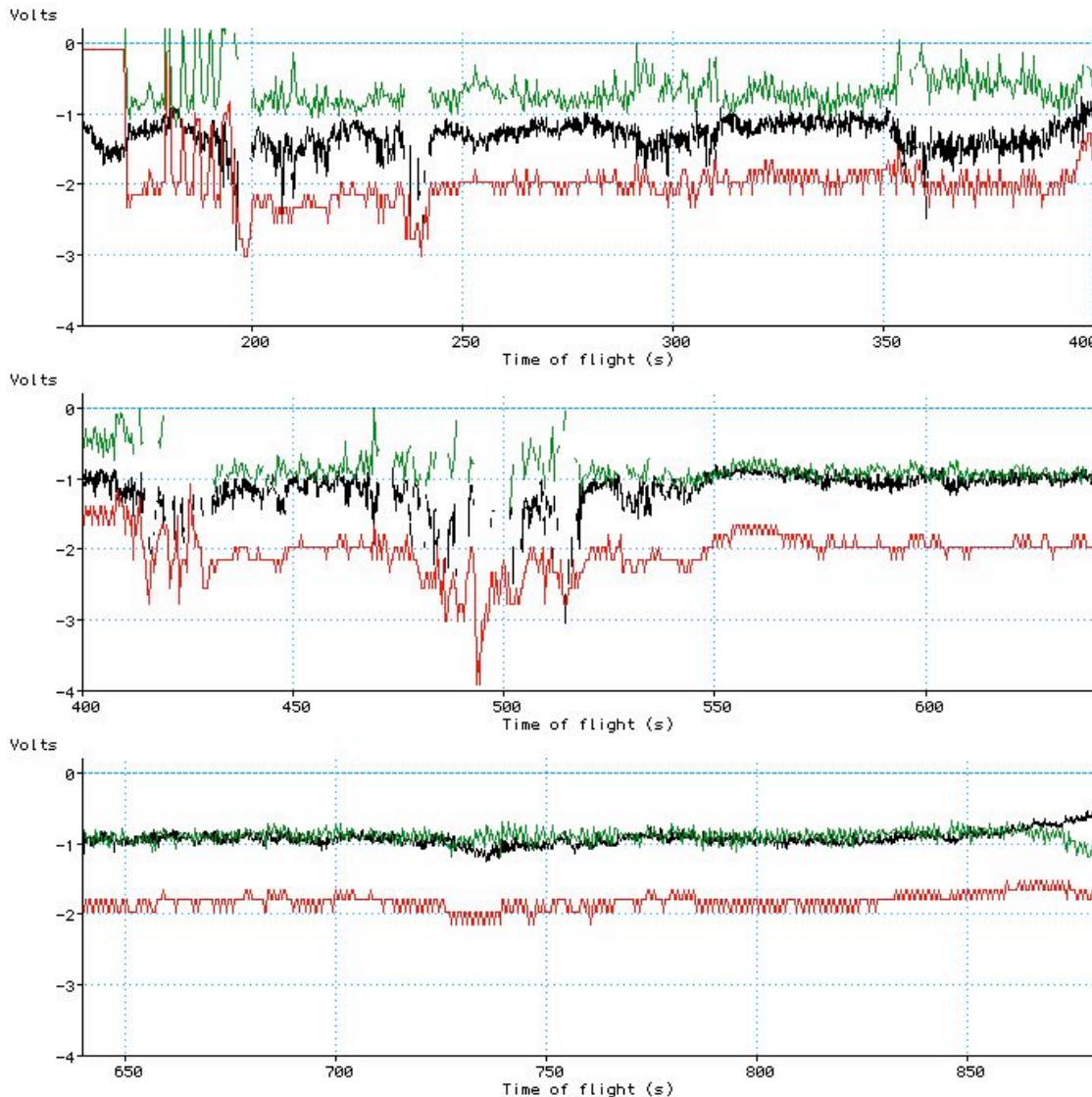


# SERSIO Data -Payload Potential



- Payload potential from HT2 data
- Calculated float for an idealized sphere, using core ion temperatures from HT2 data, and electron temperatures from ERPA data

$$e\phi = \frac{\ln\left(\frac{v_i}{v_e}\right) kT_e}{1 + \frac{T_e}{T_i}} \quad \text{where} \quad \frac{v_i}{v_e} = \sqrt{\frac{m_e T_i}{m_i T_e}}$$

- Estimated sphere to skin potential