

Longitude of Peak vs. Time

- All 4 ion species show a nearly linear increase of the phase (in System III longitude) of the sinusoidal fit with time.
 - Consistent with plasma that is subcorotating
- O^+ shows the most deviation from linearity.
- S^+ and S^{++} are approximately in phase with each other
- S^{3+} and O^+ are approximately in phase with each other and 180° out of phase with S^+ and S^{++}
- Dawn and dusk ansae yield nearly identical results.