

Torus Parameters vs. Time

- Significant variations in plasma composition and temperature with longitude
- Phase of longitudinal variation shifts several times during observation period.
- S II anti-correlated with S IV and T_e and all 3 highly variable
- O II and S III are the major ion species and are fairly constant
- No change in longitudinally averaged T_e over the observational period
- Composition of torus plasma identical at dawn and dusk ansa
- Dusk ansa, on average, 15% hotter than dawn ansa
- Gradual decrease in S II and corresponding increase in S IV
- ~40 day timescale of S II/S IV change suggestive of changes in the neutral source rate –See poster SM51A-03 by Bagenal et al.